
New and Revised Draft Q&As on Biosimilar Development and the BPCI Act (Revision 4) Guidance for Industry

DRAFT GUIDANCE

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For questions regarding this draft document, contact (CDER) Division of Drug Information at (855) 543-3784 or (301) 796-3400, or (CBER) Outreach and Development at 800-835-4709 or 240-402-8010.

**U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)**

**March 2026
Biosimilars**

Revision 4

New and Revised Draft Q&As on Biosimilar Development and the BPCI Act (Revision 4) Guidance for Industry

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Contains Nonbinding Recommendations

Draft—Not for Implementation

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**New and Revised Draft Q&As on Biosimilar Development and
the BPCI Act (Revision 4)
Guidance for Industry¹**

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible for this guidance as listed on the title page.

INTRODUCTION

This draft guidance provides answers to common questions from prospective applicants and other interested parties regarding the abbreviated licensure pathway in section 351(k) of the Public Health Service Act (PHS Act) (42 U.S.C. 262(k)), which was added by the Biologics Price Competition and Innovation Act of 2009 (BPCI Act). The question and answer (Q&A) format is intended to inform prospective applicants and facilitate the development of *proposed biosimilar products* and *proposed interchangeable products*,² as well as describe FDA's interpretation of certain statutory requirements.

Section 351(k) of the PHS Act provides an abbreviated licensure pathway for biological products shown to be biosimilar to, or interchangeable with, an FDA-licensed biological reference product (see sections 7001 through 7003 of the Patient Protection and Affordable Care Act (Public Law 111-148) (ACA)). FDA believes that guidance for industry that provides answers to commonly asked questions regarding FDA's interpretation of section 351(k) of the PHS Act will enhance transparency and facilitate the development and approval of biosimilar and interchangeable products. In addition, these Q&As respond to questions the Agency has received from prospective applicants regarding the submission of biologics license applications (BLAs) for proposed biosimilar and interchangeable products. FDA may provide additional Q&As through draft guidance as appropriate.

¹ This draft guidance has been prepared by the Center for Drug Evaluation and Research and the Center for Biologics Evaluation and Research at the Food and Drug Administration.

² In this draft guidance, the following terms are used to describe biological products licensed under section 351(k) of the PHS Act: (1) *biosimilar* or *biosimilar product* refers to a product that FDA has determined to be biosimilar to the reference product (see section 351(i)(2) and (k)(2) of the PHS Act); and (2) *interchangeable biosimilar* or *interchangeable product* refers to a biosimilar product that FDA has also determined to be interchangeable with the reference product (see section 351(i)(3) and (k)(4) of the PHS Act). The terms *proposed biosimilar product* and *proposed interchangeable product* are used to describe a product that is under development or is the subject of a pending 351(k) biologics license application. Biosimilarity, interchangeability, and related issues are discussed in more detail in the Background section of this guidance.

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36 This draft guidance revises and replaces the draft guidance for industry *New and Revised Draft*
37 *Q&As on Biosimilar Development and the BPCI Act (Revision 3)* (September 2021). The
38 specific changes include:

- 39
- 40 • Q&A I.8 — revised for public comment with updated content.
- 41
- 42 • Q&A I.10 and Q&A I.19 — updated with conforming and clarifying revisions and
43 moved from the final guidance for industry *Questions and Answers on Biosimilar*
44 *Development and the BPCI Act* (September 2021) (Revision 2) to this draft guidance.
- 45
- 46 • Q&A I.12 — retained from the draft guidance for industry *New and Revised Draft Q&As*
47 *on Biosimilar Development and the BPCI Act (Revision 3)* (September 2021) without
48 change.
- 49

50 Additional information about the Q&A format for this draft guidance is provided in the
51 Background section.

52

53 After FDA has considered any comments on the revised draft Q&As, the draft Q&As in this
54 guidance will be finalized by adding the Q&As, as a revision, to the final guidance for industry
55 *Questions and Answers on Biosimilar Development and the BPCI Act* (Revision 3) as
56 appropriate. That final guidance is part of a series of guidances that FDA has developed to
57 facilitate development of biosimilar and interchangeable biosimilar products.³

58

59 In general, FDA’s guidance documents do not establish legally enforceable responsibilities.
60 Instead, guidances describe the Agency’s current thinking on a topic and should be viewed only
61 as recommendations, unless specific regulatory or statutory requirements are cited. The use of
62 the word *should* in Agency guidances means that something is suggested or recommended, but
63 not required.

BACKGROUND

The BPCI Act

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70 The BPCI Act was enacted as part of the ACA on March 23, 2010. The BPCI Act amended the
71 PHS Act and other statutes to create an abbreviated licensure pathway for biological products
72 shown to be biosimilar to, or interchangeable with, an FDA-licensed biological reference product
73 (see sections 7001 through 7003 of the ACA). Section 351(k) of the PHS Act, added by the
74 BPCI Act, sets forth the requirements for the licensure of a proposed biosimilar or proposed
75 interchangeable product.

76

³ To search for specific guidances on biosimilar and interchangeable biosimilar products on the FDA guidance web page (<https://www.fda.gov/regulatory-information/search-fda-guidance-documents>), select “Biosimilars” in the topic field. Additional guidances that are applicable to biological products, including biosimilar and interchangeable biosimilar products, can be found in other topic areas, such as “Chemistry, Manufacturing, and Controls (CMC)” and “Administrative/Procedural.”

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77 Section 351(i) of the PHS Act defines *biosimilarity* to mean “that the biological product is highly
78 similar to the reference product notwithstanding minor differences in clinically inactive
79 components” and that “there are no clinically meaningful differences between the biological
80 product and the reference product in terms of the safety, purity, and potency of the product” (see
81 section 351(i)(2) of the PHS Act).

82
83 A BLA submitted under section 351(k) (known as a *351(k) BLA*) of the PHS Act must contain,
84 among other things, information demonstrating that the biological product is biosimilar to a
85 reference product based upon data derived from analytical studies, an assessment of toxicity, and
86 a clinical study or studies (see section 351(k)(2)(A)(i)(I) of the PHS Act), unless FDA has
87 determined that an element described in section 351(k)(2)(A)(i)(I) is unnecessary (see section
88 351(k)(2)(A)(ii) of the PHS Act). To meet the standard for *interchangeability*, an applicant must
89 provide sufficient information to demonstrate biosimilarity to the reference product and also to
90 demonstrate that the biological product can be expected to produce the same clinical result as the
91 reference product in any given patient, and if the biological product is administered more than
92 once to an individual, the risk in terms of safety or diminished efficacy of alternating or
93 switching between the use of the biological product and the reference product is not greater than
94 the risk of using the reference product without such alternation or switch (see section 351(k)(4)
95 of the PHS Act). Interchangeable products may be substituted for the reference product without
96 the intervention of the prescribing health care provider (see section 351(i)(3) of the PHS Act).

97
98 “*Question-and-Answer*” *Guidance Format*
99

100 FDA has been using the Q&A guidance format to describe the Agency’s thinking on and update
101 certain information and recommendations relevant to the development of biosimilar and
102 interchangeable products. This draft guidance includes only Q&As that are in draft form. The
103 guidance for industry *Questions and Answers on Biosimilar Development and the BPCI Act*
104 contains all Q&As that are final. As FDA issues individual Q&As, they will first be
105 incorporated into a draft Q&A guidance. After FDA has considered any comments on draft
106 Q&As received during the relevant comment period and, if warranted, incorporated suggested
107 changes to the Q&As, individual Q&As will be finalized and moved to the final guidance, as
108 appropriate.

109
110 A Q&A that was previously in the final guidance may be withdrawn and moved to a draft
111 guidance if FDA determines that the Q&A should be revised in some respect and reissued in a
112 revised draft Q&A for comment. A Q&A also may be withdrawn and removed from the Q&A
113 guidance if, for instance, the issue addressed in the Q&A is addressed in another FDA guidance.

114
115 FDA will provide the publication date of the current version of each Q&A and information about
116 whether the Q&A has been added to or modified in the relevant draft guidance. FDA has
117 maintained the original numbering of the guidance Q&As used in the final guidance for industry
118 *Questions and Answers on Biosimilar Development and the BPCI Act* (Revision 2), the draft
119 guidance for industry *New and Revised Draft Q&As on Biosimilar Development and the BPCI*
120 *Act* (Revision 3), and the draft guidance for industry *Biosimilarity and Interchangeability:*
121 *Additional Draft Q&As on Biosimilar Development and the BPCI Act* (September 2023)

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122 (Revision 1).⁴ For ease of reference, a Q&A retains the same number when it moves from a
123 draft guidance to the final guidance and, where appropriate, when a Q&A is withdrawn from the
124 final guidance and moved to a draft guidance.

125

126 When FDA withdraws a Q&A or moves it from draft guidance to final guidance or from final
127 guidance to draft guidance for public comment, it marks the change in the first guidance with
128 several asterisks between nonconsecutive Q&As and provides explanatory text when
129 appropriate.

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QUESTIONS AND ANSWERS

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I. BIOSIMILARITY OR INTERCHANGEABILITY

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136 ***Q.I.8.*** ***Can a sponsor use comparative clinical data with a non-U.S.-licensed product***
137 ***to support a demonstration that the proposed product is biosimilar to the***
138 ***reference product?***

139

[Revised in Draft March 2026]

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141 A.I.8.a Yes, under certain circumstances. If a sponsor seeks to use data from a clinical
142 study comparing its proposed biosimilar product to a non-U.S.-licensed product
143 (“non-U.S.-licensed comparator product”) to address, in part, the requirements
144 under section 351(k)(2)(A) of the PHS Act, the sponsor should provide adequate
145 data or information to scientifically justify why such comparative data are
146 relevant to the assessment of biosimilarity to the U.S.-licensed reference
147 product.

148

A scientific justification may be acceptable in circumstances that include:

149

150

- 151 • The proposed biosimilar product, the U.S.-licensed reference product, and
152 the non-U.S.-licensed comparator product are highly purified therapeutic
153 proteins that can be structurally and functionally characterized with a high
154 degree of specificity and sensitivity using currently available analytical
155 technologies; and
- 156 • The applicant submits information that the non-U.S.-licensed comparator
157 product has the same or only minor differences in quantitative and/or
158 qualitative composition of inactive ingredients as the U.S.-licensed
159 reference product that would not be expected to affect clinical
160 performance between the U.S.-licensed reference product and the non-
161 U.S.-licensed comparator product; and
- 162 • There is an adequate scientific rationale for why analytical differences (if
163 any) identified in product quality attributes between the non-U.S.-licensed
164 comparator product used in the clinical study and the U.S.-licensed
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⁴ When final, this guidance will represent FDA’s current thinking on this topic.

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167 reference product included in the applicant’s comparative analytical
168 assessment (described further in part (b) of this response) would not
169 preclude a conclusion that data from a clinical study comparing the
170 proposed biosimilar product to the non-U.S.-licensed comparator product
171 are relevant to a demonstration of biosimilarity to the U.S.-licensed
172 reference product.

173
174 Publicly available information describing the relationship between the U.S.-
175 licensed reference product and the non-U.S.-licensed comparator product would
176 not obviate the need for comparative analytical data to scientifically justify use of
177 a non-U.S.-licensed comparator in a clinical study intended to support a
178 demonstration of biosimilarity to the U.S.-licensed reference product.

179
180 If the above circumstances apply and an adequate scientific justification is
181 provided, a clinical study (such as an assessment of pharmacokinetics) comparing
182 the proposed biosimilar with the non-U.S.-licensed comparator product could
183 address, in part, the requirements under section 351(k)(2)(A) of the PHS Act and
184 support a demonstration of biosimilarity to the U.S.-licensed reference
185 product.^{5,6}

186
187 Issues that a sponsor may need to address to use a non-U.S.-licensed comparator
188 product in a biosimilar development program include the following:

- 189
- 190 • Whether the non-U.S.-licensed comparator product was manufactured in a
191 facility(ies) licensed and inspected by a regulatory authority that has
192 similar scientific and regulatory standards as FDA (e.g., International
193 Conference on Harmonisation (ICH) countries); and
 - 194
195 • Whether the non-U.S.-licensed comparator product was licensed by a
196 regulatory authority that has similar scientific and regulatory standards as
197 FDA (e.g., ICH countries) and the duration and extent to which the
198 product has been marketed.

199
200 Sponsors are encouraged to discuss with FDA any plans (including, but not
201 limited to, the circumstances above) to submit and scientifically justify clinical
202 data derived from non-U.S.-licensed comparator products in support of a 351(k)
203 application as early as feasible during product development. A final decision
204 about the adequacy of the data and information intended to scientifically justify

⁵ The draft guidance for industry *Scientific Considerations in Demonstrating Biosimilarity to a Reference Product: Updated Recommendations for Assessing the Need for Comparative Efficacy Studies* (October 2025) is available on the FDA guidance web page at <https://www.fda.gov/regulatory-information/search-fda-guidance-documents>. When final, this guidance will represent the FDA’s current thinking on this topic.

⁶ Differences in strength or dosage form between the U.S.-licensed reference product and non-U.S.-licensed comparator product do not necessarily preclude use of the non-U.S.-licensed comparator product in a clinical study intended to support a demonstration of biosimilarity.

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205 the relevance of a non-U.S.-licensed comparator product to the assessment of
206 biosimilarity will be made during review of the 351(k) application.

207

208 A.I.8.b Reference Product and Non-U.S.-Licensed Comparator Products⁷

209

210 For purposes of the comparative analytical assessment and comparison between
211 the non-U.S.-licensed comparator product and the U.S.-licensed reference
212 product, any lots used in a clinical study supporting a demonstration of
213 biosimilarity should be included in the comparative analytical assessment
214 intended to justify the relevance of comparative data with the non-U.S.-licensed
215 comparator product to a demonstration of biosimilarity.⁸ Specifically, if a clinical
216 study compares the proposed biosimilar to a non-U.S.-licensed comparator
217 product, sponsors should ensure that data generated in that clinical study are
218 relevant and applicable to the demonstration of biosimilarity by providing
219 sufficient comparative analytical data based on: (1) the lots of the non-U.S.-
220 licensed comparator product used in the clinical study; and (2) the lots of the
221 U.S.-licensed reference product used in the comparative analytical assessment to
222 support a demonstration that the proposed biosimilar is highly similar to the U.S.-
223 licensed reference product. If analytical differences are observed between the
224 clinical lots of the non-U.S.-licensed comparator product and the U.S.-licensed
225 reference product lots used in the comparative analytical assessment with the
226 proposed biosimilar, the sponsor may provide information (e.g., a risk assessment
227 and relevant analytical data) to scientifically justify why these differences do not
228 preclude a conclusion that the data from the clinical study comparing the
229 proposed biosimilar to the non-U.S.-licensed comparator product are relevant to
230 the demonstration of biosimilarity.

231

232 The acceptance criteria used to support a demonstration that a proposed biosimilar
233 product is highly similar to the U.S.-licensed reference product should be derived
234 from data generated from a sponsor's analysis of the U.S.-licensed reference
235 product. The comparative analytical assessment should be based on a direct
236 comparison of the proposed biosimilar product to the U.S.-licensed reference
237 product. As a scientific matter, combining data from the U.S.-licensed reference
238 product and non-U.S.-licensed comparator product to determine the acceptance
239 criteria or to perform the comparative analytical assessment for the proposed
240 product would not be acceptable to support a demonstration that the proposed
241 product is biosimilar to the U.S.-licensed reference product.

⁷ This draft guidance is not intended to be finalized in the guidance for industry *Questions and Answers on Biosimilar Development and the BPCI Act* (Revision 3). Instead, the recommendations in this draft guidance, after considering any comments received in the docket, are intended to inform future revisions to the guidance for industry *Development of Therapeutic Protein Biosimilars: Comparative Analytical Assessment and Other Quality-Related Considerations* (September 2025) such as changes to recommendations in section VI.A.3 related to the subject addressed in this guidance.

⁸ For additional information on the comparative analytical assessment, see section VI of the guidance for industry *Development of Therapeutic Protein Biosimilars: Comparative Analytical Assessment and Other Quality-Related Considerations* (September 2025).

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Sponsors are encouraged to discuss with FDA any plans to submit clinical data derived from a study using a non-U.S.-licensed comparator product in support of a 351(k) application as early as feasible during product development. A final decision about the adequacy of the data and information intended to scientifically justify the relevance of a non-U.S.-licensed comparator product to the assessment of biosimilarity will be made during review of the 351(k) application.

* * * * *

***Q.I.10. How long and in what manner should sponsors retain reserve samples of the biological products used in comparative clinical PK and/or PD studies intended to support a 351(k) application?
[Revised in Draft March 2026]***

A.I.10. Reserve samples establish the identity of the products tested in the actual study, allow for confirmation of the validity and reliability of the results of the study, and facilitate investigation of further follow-up questions that arise after the studies are completed. FDA recommends that the sponsor of a proposed biosimilar product retain reserve samples for at least 5 years following the date on which the 351(k) application is licensed, or, if such application is not licensed, at least 5 years following the date of completion of a comparative clinical pharmacokinetic (PK) and/or pharmacodynamic (PD) study of the reference product and the proposed biosimilar product (or other clinical study in which PK or PD samples are collected with the primary objective of assessing PK or PD similarity) that is intended to support a submission under section 351(k) of the PHS Act. Contact FDA for specific advice if an alternative approach is being considered. For a PK similarity study, FDA recommends that samples of the proposed biosimilar and the reference product or, if applicable, non-U.S.-licensed comparator product be retained.

For most protein therapeutics, FDA recommends that a sponsor retain the following quantities of product and dosage units, which are expected to be sufficient for evaluation by state-of-the-art analytical methods:

- A minimum of 10 dosage units each of the proposed biosimilar product, reference product and, if applicable, non-U.S.-licensed comparator product, depending on the amount of product within each unit; in general, this should provide for a total product mass of equal to or greater than 200 milligrams (mg) in a volume equal to or greater than 10 milliliters (mL).

FDA recommends that the sponsor contact the review division to discuss the appropriate quantities of reserve samples in the following situations:

- A product mass of equal to or greater than 200 mg in a volume equal to or greater than 10 mL requires a large number of dosage units

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- Biological products other than protein therapeutics

* * * * *

Q.I.12. How can an applicant demonstrate that its proposed injectable biosimilar product or proposed injectable interchangeable product has the same “strength” as the reference product?
[Draft December 2018]

A.I.12. Under section 351(k)(2)(A)(i)(IV) of the PHS Act, an applicant must demonstrate that the “strength” of the proposed biosimilar product or proposed interchangeable product is the same as that of the reference product. Data and information generated as part of the analytical similarity assessment may inform the determination that a proposed biosimilar product or proposed interchangeable product has the same strength as its reference product. As a scientific matter, there may be a need to take into account different factors and approaches in determining the strength of different biological products. Sponsors should discuss their proposed approach with FDA and provide an adequate scientific basis for their approach to demonstrating same strength.

In general, a sponsor of a proposed biosimilar product or proposed interchangeable product with an injection dosage form (e.g., a solution) can demonstrate that its product has the same strength as the reference product by demonstrating that both products have the same total content of drug substance (in mass or units of activity) and the same concentration of drug substance (in mass or units of activity per unit volume). In general, for a proposed biosimilar product or proposed interchangeable product that is a dry solid (e.g., a lyophilized powder) from which a constituted or reconstituted solution is prepared, a sponsor can demonstrate that the product has the same strength as the reference product by demonstrating that both products have the same total content of drug substance (in mass or units of activity).

Although not a part of demonstrating same strength, if the proposed biosimilar product or proposed interchangeable product is a dry solid (e.g., a lyophilized powder) from which a constituted or reconstituted solution is prepared, the 351(k) application generally should contain information that the concentration of the proposed biosimilar product or proposed interchangeable product, when constituted or reconstituted, is the same as that of the reference product, when constituted or reconstituted.

A sponsor should determine the content of drug substance for both the reference product and the proposed biosimilar product or proposed interchangeable product using the same method. The strength of the proposed product generally should be expressed using the same units of measure as the reference product.

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***Q.I.19. If a non-U.S.-licensed comparator product is proposed for importation and use in the United States in a clinical investigation intended to support licensure of a proposed product under section 351(k), is a separate IND required for the non-U.S.-licensed product?
[Revised in Draft March 2026]***

A.I.19. A sponsor may submit a single investigational new drug application (IND) for a development program that is intended to support licensure of a proposed product under section 351(k) of the PHS Act and includes use of a non-U.S.-licensed comparator product. The sponsor should submit information supporting the proposed clinical investigation with the non-U.S.-licensed comparator product under the IND. This scenario may occur if a sponsor seeks to use data from a clinical study comparing its proposed biosimilar product to a non-U.S.-licensed comparator product to address, in part, the requirements under section 351(k)(2)(A) of the PHS Act. For example, a sponsor may propose to conduct a clinical PK study in the United States with the proposed biosimilar product and a non-U.S.-licensed comparator product.

A non-U.S.-licensed comparator product is considered an investigational new drug in the United States, and thus would require an IND for importation and use in the United States (see 21 CFR 312.110(a)). If a sponsor intends to conduct a clinical investigation in the United States using a non-U.S.-licensed comparator product, the IND requirements in 21 CFR part 312 also would apply to this product (see, e.g., 21 CFR 312.2).

With respect to chemistry, manufacturing, and controls (CMC) information, a sponsor should submit to the IND as much of the CMC information required by 21 CFR 312.23(a)(7) as is available. However, FDA recognizes that a sponsor may not be able to obtain all the CMC information required by 21 CFR 312.23(a)(7) for a non-U.S.-licensed comparator product for which it is not the manufacturer. In these circumstances, the sponsor can request in an IND submission that FDA waive the regulatory requirements related to CMC information on the non-U.S.-licensed comparator product (21 CFR 312.10). The waiver request must include at least one of the following:

- An explanation why compliance with the requirements of 21 CFR 312.23(a)(7) is unnecessary or cannot be achieved
- Information that will satisfy the purpose of the requirement by helping to ensure that the investigational new drug will have the proper identity, strength, quality, and purity

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- Other information justifying a waiver⁹

Information that is relevant to whether the investigational new drug will have the proper identity, strength, quality, and purity may include, for example, information indicating whether the investigational new drug has been licensed by a regulatory authority that has similar scientific and regulatory standards as FDA, and whether the manufacturing facilities have been inspected by a regulatory authority that has similar scientific and regulatory standards as FDA, (e.g., ICH countries). This should include, to the greatest extent possible, summary approval information and current product labeling made public by the foreign regulatory authority. In addition, a sponsor should also provide information on the conditions and containers that will be used to transport the drug product to the U.S. clinical site(s) and information on the relabeling and repackaging operations that will be used to relabel the drug product for investigational use. This should include information on how exposure of the product to light and temperature conditions outside of the recommended storage conditions will be prevented. A risk assessment on the impact the relabeling operations may have on drug product stability should also be included.

The sponsor should consult with the appropriate FDA review division regarding the CMC information necessary to support the proposed clinical study.

As would be applicable to all investigational new drugs, FDA reminds sponsors that the investigator brochure (IB) for studies to be conducted under the IND should be carefully prepared to ensure that it is not misleading, erroneous, or materially incomplete, which can be a basis for a clinical hold (see 21 CFR 312.42(b)(1)(iii) and (b)(2)(i)). For example, the term *reference product* should be used in the IB only to refer to the single biological product licensed under section 351(a) of the PHS Act against which the proposed product is evaluated for purposes of submitting a 351(k) application.

The IB and study protocol(s) should use consistent nomenclature that clearly differentiates the proposed product from the reference product. Additionally, the IB and study protocol(s) should both clearly describe whether the comparator used in each study is the U.S.-licensed reference product or a non-U.S.-licensed comparator product and use consistent nomenclature that clearly differentiates these products. If a non-U.S.-licensed comparator product is being used in a study conducted in the United States, the IB and study protocol(s) should clearly convey that the product is not FDA-approved and is considered an investigational new drug in the United States. The IB and study protocol(s) also should avoid conclusory statements regarding regulatory determinations (e.g., “comparable,” “biosimilar,” “interchangeable,” “highly similar”) that have not been made.

* * * * *

⁹ See 21 CFR 312.10(a).

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**II. PROVISIONS RELATED TO REQUIREMENTS TO SUBMIT A BLA
FOR A *BIOLOGICAL PRODUCT***

There are no draft Q&As for this section.

III. EXCLUSIVITY

There are no draft Q&As for this section.