

Non WHO Reference Material Insulin-Like Growth Factor Binding Protein-3 NIBSC code: 93/560 Instructions for use (Version 4.0, Dated 21/01/2008)

This material is not for in vitro diagnostic use. INTENDED USE

This consists of a batch of ampoules (coded 93/560) containing non-glycosylated recombinant DNA-derived insulin-like growth factor binding protein-3 (rhIGFBP-3) expressed in *E. coli.* In an international collaborative study designed to compare the ampouled preparation of rhIGFBP-3 with local standards, apparent differences were detected in several systems, most of which involved comparisons with glycosylated house standards. However there was broad agreement among a number of participants that the ampoule contents were approximately 3.5 µg, particularly from those assays which were homologous for *E. coli*-derived IGFBP-3. Because the range of estimates obtained for the ampoule content of the non-glycosylated material indicated that it would not be suitable to serve as a standard in some immunoassay and bioassay systems, the preparation is intended solely for use as a research reagent.

2. CAUTION

This preparation is not for administration to humans or animals in the human food chain.

The material is of bovine origin. The material is certified to be obtained from animals taken from a closed herd in the female line since 1980, in which no animal has been clinically suspected of having BSE & which has not been fed rations containing ruminant derived protein during that period. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

3. UNITAGE

This material is issued on the understanding that it has no official status and has no definitive unitage or content ascribed to it.

4. CONTENTS

Country of origin of biological material: United Kingdom. Each ampoule contains the residue after freeze-drying of 1ml of a solution which contained:

Recombinant DNA-derived IGFBP-3 Bovine serum albumin 0.02M sodium phosphate pH 6.0 approximately 3.5µg 1.0mg

5. STORAGE

Unopened ampoules should be stored at -20°C

Please note: because of the inherent stability of lyophilized material, NIBSC may ship these materials at ambient temperature.

6. DIRECTIONS FOR OPENING

DIN ampoules have an 'easy-open' coloured stress point, where the narrow ampoule stem joins the wider ampoule body. Various types of ampoule breaker are available commercially. To open the ampoule, tap the ampoule gently to collect material at the bottom (labelled) end and follow manufactures instructions provided with the ampoule breaker.

7. USE OF MATERIAL

For practical purposes each ampoule contains the same quantity of IGFBP-3. The entire contents of each ampoule should be completely dissolved in an accurately measured amount of buffer solution. No attempt should be made to weigh out portions of the freeze dried powder. The use of water to reconstitute ampoule contents is not recommended. The material has not been sterilized and the ampoules contain no bacteriostat.

8. STABILITY

It is the policy of WHO not to assign an expiry date to their international reference materials. They remain valid with the assigned potency and status until withdrawn or amended.

Reference materials are held at NIBSC within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. For information specific to a particular biological standard, contact standards@nibsc.ac.uk.

In addition, once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use.

NIBSC follows the policy of WHO with respect to its reference materials.

Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact NIBSC.

9. ACKNOWLEDGEMENTS

Grateful acknowledgements are due to Celtrix Pharmaceuticals for providing the material, the staff of CBRM for ampouling the preparation and the participants in the collaborative study.

10. FURTHER INFORMATION

Further information can be obtained as follows;

This material: enquiries@nibsc.org
WHO Biological Standards:
http://www.who.int/biologicals/en/
JCTLM Higher order reference materials:
http://www.bipm.org/en/committees/jc/jctlm/
Derivation of International Units:
http://www.nibsc.org/standardisation/international_standards.aspx
Ordering standards from NIBSC:
http://www.nibsc.org/products/ordering.aspx
NIBSC Terms & Conditions:
http://www.nibsc.org/terms_and_conditions.aspx

11. CUSTOMER FEEDBACK

Customers are encouraged to provide feedback on the suitability or use of the material provided or other aspects of our service. Please send any comments to enquiries@nibsc.org

Potters Bar, Hertfordshire, EN6 3QG. T +44 (0)1707 641000, nibsc.org WHO International Laboratory for Biological Standards, UK Official Medicines Control Laboratory



Attached: No

12. CITATION

In all publications, including data sheets, in which this material is referenced, it is important that the preparation's title, its status, the NIBSC code number, and the name and address of NIBSC are cited and cited correctly.

13. MATERIAL SAFETY SHEET

Classification in accordance with Directive 2000/54/EC, Regulation (EC) No 1272/2008: Not applicable or not classified

(EC) No 1272/2008: Not applicable or not classified		
Physical and Chemical properties		
Physical appearance: White lyophilised powder	Corrosive:	No
Stable: Yes	Oxidising:	No
Hygroscopic: Yes	Irritant:	No
Flammable: No	Handling:	See caution, Section 2
Other (specify): Contains material of mammalian origin. Can react		
with oxidising materials. Avoid contact with acids and alkalis.		
Toxicological properties		
Effects of inhalation: Not established, avoid inhalation		
Effects of ingestion: Not established, avoid ingestion		
Effects of skin absorption: Not established, avoid contact with skin		
Suggested First Aid		
Inhalation: Seek medical advice		
Ingestion: Seek medical advice		
Contact with eyes: W medical advice	ash with copid	ous amounts of water. Seek
Contact with skin: W	ash thoroughly	with water.
Action on Spillage and Method of Disposal		
Spillage of ampoule contents should be taken up with absorbent material wetted with an appropriate disinfectant. Rinse area with an appropriate disinfectant followed by water. Absorbent materials used to treat spillage should be treated as		

14. LIABILITY AND LOSS

biological waste.

In the event that this document is translated into another language, the English language version shall prevail in the event of any inconsistencies between the documents.

Unless expressly stated otherwise by NIBSC, NIBSC's Standard Terms and Conditions for the Supply of Materials (available at http://www.nibsc.org/About_Us/Terms_and_Conditions.aspx or upon request by the Recipient) ("Conditions") apply to the exclusion of all other terms and are hereby incorporated into this document by reference. The Recipient's attention is drawn in particular to the provisions of clause 11 of the Conditions.

15. INFORMATION FOR CUSTOMS USE ONLY

Country of origin for customs purposes*: United Kingdom

* Defined as the country where the goods have been produced and/or sufficiently processed to be classed as originating from the country of supply, for example a change of state such as freeze-drying.

Net weight: 2mg

Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable.

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