

Datasheet: OBT1546A

BATCH NUMBER 148368

Description:	RECOMBINANT HUMAN INTERFERON BETA 1 ALPHA
Name:	IFN BETA 1A
Other names:	INTERFERON BETA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	5 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Functional Assays	■			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Recombinant protein - lyophilized
Reconstitution	Reconstitute with 50ul of distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preservative Stabilisers	0.34M Mannitol 0.9% human serum albumin
Approx. Protein Concentrations	Total protein concentration 0.1 mg/ml after reconstitution
External Database Links	UniProt: P01574 Related reagents Entrez Gene:

Synonyms	IFB, IFNB
Product Information	Recombinant human interferon beta 1a is a CHO cell derived recombinant protein corresponding to single, glycosylated polypeptide chain containing 166 amino acid residues. Interferon beta 1a is a 22 kDa cytokine and member of the type 1 interferon family. Interferons exhibit anti-viral and anti proliferative effects and also influence the immune response. Effects on the immune system mediated by interferons may be mediated by increased expression of major histocompatibility complex (MHC) antigens. Interferon beta a has been shown to exhibit therapeutic efficacy against viral infections, different types of cancer and multiple sclerosis (Borden <i>et al.</i> 2007).
Activity	270 x 10 ⁶ IU/mg, as determined in a viral resistance assay
Purity	>98.0% as determined by HPLC and SDS-PAGE.
References	1. Smith, M.C. <i>et al.</i> (2013) hTERT extends the life of human fibroblasts without compromising type I interferon signaling. PLoS One. 8 (3): e58233.
Further Reading	1. Borden, E.C. <i>et al.</i> (2007) Interferons at age 50: past, current and future impact on biomedicine Nat Rev Drug Discov. 6: 975-90
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10493 available at: https://www.bio-rad-antibodies.com/SDS/OBT1546A10493
Regulatory	For research purposes only

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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