

Datasheet: OBT1547

Description:	RECOMBINANT HUMAN INTERFERON BETA 1B
Name:	IFN BETA 1B
Other names:	INTERFERON BETA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 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	Purified Recombinant protein - lyophilized
Reconstitution	Reconstitute with 0.1 ml 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.
Preparation	Purified recombinant interferon beta 1b expressed in <i>E. coli</i>
Buffer Solution	Lyophilized from a solution containing human albumin and dextrose
Preservative Stabilisers	None present
Approx. Protein Concentrations	0.1 mg/ml after reconstitution
External Database Links	<p>UniProt: P01574 Related reagents</p> <p>Entrez Gene: 3456 IFNB1 Related reagents</p>
Synonyms	IFB, IFNB

Product Information	Recombinant human interferon beta 1b produced in <i>E. coli</i> is a single non-glycosylated variant form of the human interferon beta-1b polypeptide chain. The interferon gene was cloned from human fibroblasts and altered to substitute Serine for the Cysteine at residue 17.
Protein Molecular Weight	18.5 kDa (165 amino acid residues)
Activity	The Specific activity determined using a viral resistance assay is of 32×10^6 IU/mg. The viral resistance assays used are the human WISH cell line and VSV, or the monkey VERO cell line and EMCV.
Purity	>98% by SDS PAGE and HPLC analysis.
References	<ol style="list-style-type: none"> Happold, C. <i>et al.</i> (2014) Interferon-β Induces Loss of Spherogenicity and Overcomes Therapy Resistance of Glioblastoma Stem Cells. Mol Cancer Ther. 13: 948-61. Wolpert, F. <i>et al.</i> (2015) Interferon-β Modulates the Innate Immune Response against Glioblastoma Initiating Cells. PLoS One. 10 (10): e0139603. Eriksen, A.B. <i>et al.</i> (2015) Retinoic acid enhances the levels of IL-10 in TLR-stimulated B cells from patients with relapsing-remitting multiple sclerosis. J Neuroimmunol. 278: 11-8.
Storage	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	3 months from date of reconstitution
Health And Safety Information	Material Safety Datasheet documentation #10268 available at: 10268: https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf
Regulatory	For research purposes only

North & South Tel: +1 800 265 7376

America 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

'M361355:200211'

Printed on 01 May 2020

© 2020 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)