

Datasheet: OBT1546A

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 - lyophilised
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.
Buffer Solution	0.01M Sodium Acetate
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: 3456 IFNB1 Related reagents
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. 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 *et al.* 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.
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.
Shelf Life	12 months from date of reconstitution
Health And Safety Information	Material Safety Datasheet documentation #10493 available at https://www.bio-rad-antibodies.com/uploads/MSDS/10493.pdf
Regulatory	For research purposes only

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