

IFNB1

Recombinant Human Interferon beta 1b

Catalog No.	CRI009A CRI009B CRI009C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	Fibroblast interferon, IFN-beta		
Description:	IFN-betas are proteins produced by many cell types including lymphocytes (NK cells, B-cells and T-cells), macrophages, fibroblasts, endothelial cells, osteoblasts and others. They have antiviral activity that it is mainly involved in innate immune response. The IFN-beta family has 2 subtypes, which are IFN-beta1 (IFNB1) and IFN-beta3 (IFNB3) (a gene designated IFN-beta2 is actually IL-6). IFN-beta1 is used as a treatment for multiple sclerosis as it reduces the relapse rate.		
UniProt ID:	P01574		
Gene ID:	3456		
Source:	<i>E. coli</i>		
Molecular Weight:	20 kDa (166 aa) monomer		
Formulation:	Lyophilized from sterile-filtered PBS, pH 7.4 containing 2% HSA and 3% mannitol.		
Purity:	>97.0% by HPLC and SDS-PAGE		
Endotoxin Level:	< 1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard.		
Specific Activity:	> 3.0 × 10 ⁷ IU/mg, determined by an anti-viral assay.		
Amino Acid Sequence:	MSYNLLGFLQ RSSNFQCQKL LWQLNGRLEY CLKDRMNFDI PEEIKQLQQF QKEDAALTIY EMLQNIFAIF RQDSSSTGWN TIVENLLAN VYHQINHLKT VLEEKLEKED FTRGKLMSSL HLKRYYGRIL HYLKAKEYSH CAWTIVRVEI LRNFYFINRL TGYLRN		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. Avoid repeated freeze/thaw cycles.		

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