

Recombinant Human IFN beta (Immune Interferon beta)

Product Description

Proteins of this family play an important role in inducing non-specific resistance against a broad range of viral infections. They also affect cell proliferation and modulate immune responses. Produced by peripheral blood leukocytes and lymphoblastoid cells, IFN alpha is an acid-stable molecule that signals through IFN- α/β R, which is also used by IFN beta. Both IFNs have similar anti-viral activity and regulate expression of MHC class I antigens. IFN alpha contains four highly conserved cysteine residues that form two disulfide bonds, one of which is necessary for biological activity.

Typical Specifications

Species	Human
Expression	CHO Cell Expressed
Activity	Assay 1: Typically 20-30 ng/ml ED50 Assay 2: Typically ≤ 0.1 ng/ml ED50
Purity	$\geq 95\%$
Endotoxin	< 1.0 EU/ μ g
Molecular Mass	22.3 kDa
Formulation	10 mM Sodium Citrate, 100 mM Sodium Chloride + 10 mM Sucrose.
Country of Origin	USA

Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

Activity Assay

Assay#1: Determined by its ability to induce apoptosis in HeLa cells.

Assay#2: Determined by a cytotoxicity assay using human TF-1 cells.

AA Sequence

MSYNLLGFLQ	RSSNFQCQKL	LWQLNGRLEY
CLKDRMNFDI	PEEIKQLQQF	QKEDAALTIY
EMLQNIFAIF	RQSSSTGWN	ETIVENLLAN
VYHQINHLKT	VLEEKLEKED	FTRGKLMSSL
HLKRYYGRIL	HYLKAKEYSH	CAWTIVRVEI
LRNFYFINRL	TGYLRN	

Reconstitution Buffer

Centrifuge the vial prior to opening.
Reconstitute in water to a concentration of 1.0 mg/ml. Do not vortex.

Storage

This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% HSA) and store in working aliquots at -20°C to -80°C.

Limited Use and Restrictions

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