

IFN- λ 1, human recombinant

CATALOG #:	7162-10	10 μ g
	7162-50	50 μ g
ALTERNATE NAMES:	IL-29	
SOURCE:	E Coli	
PURITY:	\geq 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	19.8 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/ μ g of protein (<1EU/ μ g).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.5.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5-1.0 mg/ml. Do not vortex. 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% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

IFN λ -1,-2, and -3 (also known as IL-29, IL-28A and IL-28B respectively) are distantly related to the IL-10 family and Interferons. All three IFN-lambdas uses a distinct receptor system composed of an IFN- λ R1 subunit (also called CRF2-12) and IL-10R2 subunit (also called CRF2-14). Signaling through this receptor system induces antiviral defense similar but distinct than the type I Interferons. Recombinant human IFN- λ 1 is a 19.8 kDa protein containing 178 amino acid residues.

BIOLOGICAL ACTIVITY:

Determined by its ability to activate STAT phosphorylation in an ISRE Luciferase Reporter Assay using human colon carcinoma COLO205 cells. The expected ED₅₀ is 0.2-0.5 ng/ml

AMINO ACID SEQUENCE:

PTSKPTTTGK GCHIGRFKSL SPQELASFCK ARDALEESLK LKNWSCSSPV
FPGNWDLRLL QVRERPVALE AELALTLKVL EAAAGPALED VLDQPLHTLH
HILSQLQACI QPQPTAGPRP RGRLLHHLHR LQEAPKKESA GCLEASVTFN
LFRLLTRDLK YVADGNLCLR TSTHPEST

RELATED PRODUCTS:

- IFN- λ 2, human recombinant (Cat # 7163-10, -50)
- Human Cell^{exp} Human Recombinant IFN-alpha 2b (Cat # 6459-10, -50)
- IFN-alpha 2a, human recombinant (Cat # 4594-20, -100, -1000)
- IFN-alpha 2b, human recombinant (Cat # 4595-20, -100, -1000)
- IFN-alpha 1, human recombinant (Cat # 4596-10, -100, -1000)
- IFN-beta 1b, human recombinant (Cat # 4860-10, -50, -1000)
- IFN-gamma, human recombinant (Cat # 4116-20, -100, -1000)
- IFN-gamma, murine recombinant (Cat # 4117-20, -100, -1000)
- IFN-gamma, rat recombinant (Cat # 4118-50, -100, -1000)
- IFN-gamma Antibody (Cat # 5116-200)
- IFN-gamma Antibody (Cat # 5117-100)
- IFN-alpha Antibody (Cat # 5596-100)
- IFN-alpha Antibody (Cat # 5595R-100)
- IFN-alpha 2b Antibody (Cat # 5595-100)

FOR RESEARCH USE ONLY! Not to be used in humans.