

# IFN- $\lambda$ 2, human recombinant

<b>CATALOG #:</b>	7163-10	10 $\mu$ g
	7163-50	50 $\mu$ g
<b>ALTERNATE NAMES:</b>	IL-28A	
<b>SOURCE:</b>	E Coli	
<b>PURITY:</b>	$\geq$ 98% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	19.6 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/ $\mu$ g of protein (<1EU/ $\mu$ g).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Acetic Acid.	
<b>STORAGE CONDITIONS:</b>	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  $\lambda$ -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- $\lambda$ 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- $\lambda$ 2 is a 19.6 kDa protein containing 174 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 ED<sub>50</sub> is 0.3-0.5 ng/ml

**AMINO ACID SEQUENCE:**

PVARLHGALP DARGCHIAQF KSLSPQELQA FKRAKDALEE SLLLKDCRCH  
SRLFPRTWDL RQLQVRERPM ALEAELALT KVLEATADTD PALVDVLDQP  
LHTLHHILSQ FRACIQPQPT AGPRTRGR LH HWLYRLQEAP KKESPGCLEA  
SVTFNLFRL TRDLNVCV ASG DL CV

**RELATED PRODUCTS:**

- IFN- $\lambda$ 1, human recombinant (Cat # 7162-10, -50)
- Human Cell<sup>exp</sup> 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.**