

Product datasheet for **TP728229M**

Recombinant IFN omega (interferon omega), Human

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant IFN omega (interferon omega), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MCDLPQNHGLLSRNTLVLLHQMRISPFLCLKDRRDFRFPQEMVKGSQ LQKAHVMSVLHEMLQQIFSLF HTERSSAAWNMTLLDQLHTGLHQQQLHLETCLLQVVGEGESAGAISSPALTRRRYFQGIRVYLKEKKYSDC AWEVVRMEIMKSLFLSTNMQERLRKDRDLGSS with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 20.93 kDa. The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>95% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.
Bioactivity:	Measure by its ability to induce cytotoxicity in TF-1 cells. The ED ₅₀ for this effect is <0.02 ng/mL. The specific activity of recombinant human IFN omega is approximately >5 x10 ⁷ IU/mg.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P05000
Synonyms:	IFN alpha II-1, IFNW1



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Summary:

Interferon Omega (IFN- ω) is a 20.12 kDa member of type I IFN family with 173 amino acid residues. IL-28B is expressed by epithelial tissues. IFN- ω with antiviral, antitumor activity and regulating the innate immune response. Able to activate P13K/Akt signaling pathway via binding its receptor IFNAR in cells.