

Product datasheet for **TP728229**

Recombinant IFN omega (interferon omega), Human

Product data:

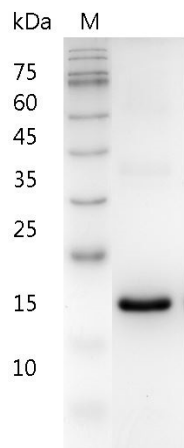
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant IFN omega (interferon omega), Human |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MCDLPQNHGLLSRNTLVLLHQMRRISPFLCLKDRRDFRFPQEMVKGSQ LQKAHVMSVLHEMLQQIFSLF HTERSSAAWNMTLLDQLHTGLHQQ LQHLETCLLQVVGEGESAGAISSPALTRRRYFQGIRVYLKEKKYSDC AWEVVRMEIMKSLFLSTNMQERLRSKDRDLGSS 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.

Product images:

SDS- PAGE analysis of recombinant human IFN omega