

Product datasheet for **TP728325**

Recombinant IFN beta 1a (Interferon beta 1a), Mouse

Product data:

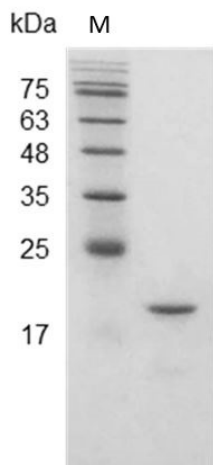
| | |
|--|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant IFN beta 1a (Interferon beta 1a), Mouse |
| Species: | Mouse |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MINYKQLQLQERTNIRKCCQELLEQLNGKINLTYRADFKIPMEMTEKMQKSYTAFQIEMLQNVFLVFRNN FSSTGWNIVVRLLDLHQQTVFLKTVLEEKQEERLTWEMSSSTALHLKSYWVRVQRYLKLKMKYNSYAWM VVRAEIFRNFLIIRRLTRNFQN with polyhistidine tag at the C-terminus |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 20.68 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis). |
| Purity: | >98% 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 protect HeLa cells infected with encephalomyocarditis (EMC) virus. The ED ₅₀ for this effect is <5 pg/mL. The specific activity of recombinant mouse IFN beta 1a is > 1 x 10 ⁹ 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: | <u>P01575</u> |
| Synonyms: | IFNB1, Type I Interferon |



[View online »](#)

Summary:

Interferon Beta 1a (IFN beta 1a) is a leukocyte interferon, which is a variant of Interferon beta. IFN beta 1a is a 17.87 kDa protein containing 161 amino acid residues. It could bind the interferon receptors that activates the signal transduction of immune responses through the Jak/STAT pathway in leukocytes and lymphoblastoid cells.

Product images:

SDS- PAGE analysis of recombinant mouse IFN beta 1a