

Product datasheet for **TP728356**

Recombinant IL-36 alpha (Interleukin-36 alpha), Mouse

Product data:

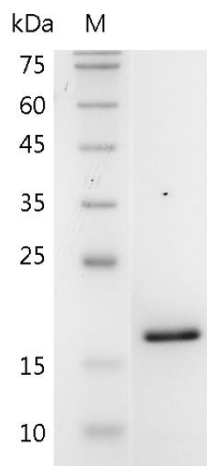
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant IL-36 alpha (Interleukin-36 alpha), Mouse |
| Species: | Mouse |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MNKEKELRAASPSLRHVQDLSSRVWILQNNILTAVPRKEQTVPVTTILLPCQYLDLTLETNRGDPTYMGVQR PMSCLFCTKDGEQPVQLQEGGNIMEMYNKKEPVKASLFYHKKSGTTSTFESAAPGWFIAVCSKGCPLIL TQELGEIFITDFEMIVVH with polyhistidine tag at the C-terminus. |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 18.82 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 induce IL-6 secretion in 3T3 cells. The ED ₅₀ for this effect is <15 ng/mL. The specific activity of recombinant mouse IL-36 alpha is > 1 x 10 ⁵ 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: | Q9JLA2 |
| Synonyms: | IL36A, Interleukin-1 family member 6 (IL-1F6), FIL1ε (FIL1E), Interleukin-1ε (IL1E), Fi, Fil, Fil1, IL-1, IL-1H1, IL1RP2 |



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Summary:

Interleukin 36 alpha (IL-36 alpha) is a 17.76 kDa cytokine with 160 amino acid residues. IL-36 alpha is an IL-1 family member, which binds to the Interleukin-1 receptor and is expressed in the lung, stomach, and placenta. IL-36 alpha is critical in inflammatory responses and stimulates the production of proinflammatory cytokines, such as IL-12, IL-1 β , IL-6, and TNF- α . It also induces the generation of IFN γ , IL-4, and IL-17 in CD4+ T cells.

Product images:

SDS- PAGE analysis of recombinant mouse IL-36 alpha