

Mouse recombinant IL-36 alpha (Interleukin-36 alpha) protein, AF

Catalog Number: PROTQ9JLA2-4

Overview

Product Name	Mouse recombinant IL-36 alpha (Interleukin-36 alpha) protein, AF
Description	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-1beta, IL-6, and TNF-alpha. It also induces the generation of IFNgamma, IL-4, and IL-17 in CD4+ T cells.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

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.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 18.82 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce IL-6 secretion in 3T3 cells. The ED₅₀ for this effect is 1 x 10² IU/mg.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MNKEKELRAASPSLRHVQDLSSRVWILQNNILTAVPRKEQTVPVITILLPCQYLDLTLETNRGDPTYMGVQRPMSCLFCTKDGEQPVLQLGEGNIMEMY
NKKEPVKASLFYHKKSGTTSTFESAAPGWFIIVCSKGCPLILTQELGEIFITDFEMIVVH with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 ug/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.

Usage

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