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Mouse recombinant IL-30 (Interleukin-30) protein, AF

Catalog Number: PROTQ8K3I6-1

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Overview

Product Name	Mouse recombinant IL-30 (Interleukin-30) protein, AF
Description	Interleukin 30 (IL-30) forms one chain of the heterodimeric cytokine called interleukin 27 (IL-27), thus it is also called IL27 p28, it predicts a molecular mass of 24.9 kDa. IL-30, the p28 subunit that forms IL-27 together with EBI3 and is also known as IL-27 p28 or IL-27A, has been considered a surrogate to represent IL-27. It was initially thought to be an IL-12-like cytokine promoting Th1 immunity because of its ability to induce T-bet and IL-12Rbeta2 expression through STAT1 activation during Th1 differentiation.
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 24.51 kDa. The protein migrates about 25 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to protect HepG2 cells infected with encephalomyocarditis (EMC) virus. The ED_{50} for this effect is <5 ng/mL.

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Endotoxin

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

Amino Acid Sequence

MFPTDPLSLQELRREFTVSLYLARKLLSEVQGYVHSFAESRLPGVNLDLLPLGYHLPNVSLTFQAWHHLSDSERLCFLATTLRPFPAMLGGLGTQGTWTSS EREQLWAMRLDLRDLHRHLRFQVLAAGFKCSKEEEDKEEEEEEEEEKKLPLGALGGPNQVSSQVSWPQLLYTYQLLHSLELVLSRAVRDLLLLSLPRRPG SAWDS 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 H_2O 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.

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Usage

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