

Active Recombinant Mouse Interleukin 27

Cat. No. IL27-506M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse p28 is a single-chain 207 amino acid peptide with a mass of approximately 23,697 Daltons.
Species	Mouse
Source	E.coli
Description	Recombinant Mouse IL-27/p28 Subunit, also known as Interleukin-30, is a member of the IL-12 family of cytokines. When combined with EB13 (Epstein-Barr virus induced gene 3), the heterodimer formed is IL-27. Mouse p28 is a proinflammatory cytokine inducing immunomodulatory effects. Current research is underway to delineate specific biological functions.
Form	Lyophilized at a concentration of 1 mg/ml in 10mM NaP, 7.5
Purity	Purity ~ 97% as determined by: Reducing and non-reducing SDS-PAGE.
Bio-activity	Mouse p28 biological activity was measured via dose-dependent inhibition of TGF-beta & IL-6-induced IL-17A expression in mouse CD4 splenocytes. 50ng/ml of mouse p28 is capable of inhibiting >25% of IL-17A expression in this assay.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is

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recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 - 0.5 mg"s/ml, which can be further diluted into other aqueous solutions.

Purity ~ 97% as determined by

Reducing and non-reducing SDS-PAGE.

Protein Content determined by

UV spectroscopy at 280 nm. Quantitation on SDS-PAGE against a known standard.

Endotoxin Level

Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

Amino acid sequence

MFPTDPLSLQ ELRREFTVSL YLARKLLSEV QGYVHSFAES RLPGVNLDLL
PLGYHLPNVS LTFQAWHHLSDSERLCFLAT TLRPFPA MLG GLGTQGTWTS
SEREQLWAMR LDLRDLHRHL RFQVLAAGFK CSKEEEDKEEEEEEEEEEEKK
LPLGALGGPN QVSSQVSWPQ LLYTYQLLHS LELVLSRAVR DLLLLSLPRR
PGSAWDS

Storage

Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name

Il27 interleukin 27 [*Mus musculus*]

Official Symbol

Il27

Synonyms

Il27; interleukin 27; p28; Il30; IL-27; IL-27p28; interleukin 30; IL-27 p28 subunit

Gene ID

246779

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mRNA Refseq	NM_145636
Protein Refseq	NP_663611
UniProt ID	Q8K3I6
Chromosome Location	7 F3
Function	cytokine activity; interleukin-27 receptor binding; protein binding; receptor binding

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