

Active Recombinant Mouse Interleukin 27

Cat. No. II27-506M Lot. No. (See product label)

SPECIFICATION

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| 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 TLRPFPAMLG 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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