



***Recombinant Mouse IL-27/p28***  
*(Interleukin-27, p28 subunit)*

*Catalog Number: 200-50*

*Accession Number: Q8K316*

***Specifications and Uses:***

**Alternate Names:** IL-30, P28, IL-27 p28 subunit

**Description:**

The p28 subunit of IL-27 (IL-27/p28), also known as Interleukin-30 (IL-30), is a member of the IL-12 family of cytokines. When combined with EB13 (Epstein-Barr virus induced gene 3), p28 forms a heterodimer known as IL-27. p28 is thought to be a pro-inflammatory cytokine inducing immuno-modulatory effects, but the details of these effects are currently unclear and research is focused on delineating its specific biological functions. Recombinant mouse p28 is a non-glycosylated protein, containing 207 amino acids, with a molecular weight of 23.7 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant mouse IL-27/p28 is lyophilized at a concentration of 1 mg/mL in 10 mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.5. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

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

**Protein Content and Purity (typically ≥ 97%) determined by:**

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

**Biological Activity:**

The activity is measured via dose-dependent inhibition of IL-17A expression from mouse CD4<sup>+</sup> splenocytes stimulated with TGF-β and IL-6. 50ng/mL typically inhibits greater than 25% of IL-17A expression.

**AA Sequence:**

MFPTDPLSLQ ELRREFTVSL YLARKLLSEV QGYVHSFAES RLPGVNLDLL PLGYHLPNVS LTFQAWHHLS  
DSERLCFLAT TLRFPFAMLG GLGTQGTWTS SEREQLWAMR LDLRDLHRHL RFQVLAAGFK CSKEEEDKEE  
EEEEEEEEKK LPLGALGGPN QVSSQVSWPQ LLYTYQLLHS LELVLSRAVR DLLLSLPRR PGSAWDS

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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