

BACKGROUND:

The p28 subunit of interleukin 27 (IL-27), also known as interleukin 30 (IL-30), is a member of the interleukin 12 (IL-12) family of cytokines. p28 is a 28 kilodalton polypeptide that associates with the Epstein-Barr virus induced gene 3 (EBI3) to form the IL-27 cytokine heterodimer complex. IL-27 functions as a proinflammatory cytokine that induces immunomodulatory effects in naive CD4+ T cells, mast cells, and monocytes. p28 can also form a complex with cytokine-like factor 1 (CLF), that is secreted by dendritic cells, to regulate natural killer (NK) and T cell function.

Recombinant mouse p28 subunit of interleukin 27 is a non-glycosylated protein monomer, containing 207 amino acids and having a molecular mass of 23.7 kDa.

Cat. No.:
 RP2050AF

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

AA Sequence:

MALVALSQPR	VQCHASRYPV	AVDCSWTPLQ
APNSTRSTSF	IATYRLGVAT	QQSQPCLQR
SPQASRCTIP	DVHLFSTVPY	MLNVTAVHPG
GASSLLAFV	AERI IKPDPP	EGVRLRTAGQ
RLQVLWHPPA	SWPFPDIFSL	KYRLRYRRRG
ASHFRQVGPI	EATFTLRNS	KPHAKYCIQV
SAQLTDYGK	PSDWSLPGQV	ESAPHKP

TECHNICAL INFO

Source:
E. coli

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

Formulation:
 10 mM sodium bicarbonate, pH 8.5

Stability:
 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 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

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

Animal Component-Free
 This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

