

Interleukin-27 Active Protein | mIL 27 active protein

Recombinant Mouse Interleukin-27

CATALOG #
AAA38595

HOST
E Coli

PRODUCT SYNONYMS

Interleukin-27; Recombinant Mouse Interleukin-27; IL 27 Mouse; Interleukin-27 Mouse Recombinant; Interleukin-30; IL-30; IL-27/p28; p28; Interleukin-27/p28; IL-27; Interleukin-27 subunit alpha; IL-27 subunit alpha; IL27-A; IL27; IL27a; IL-27p28; mIL 27 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Lyophilized from 10mM Sodium Phosphate (NaP) buffer pH-7.5. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MFPTDPLSLQ ELRREFTVSL YLARKLLSEV QGYVHSFAES RLPGVNLDLL PLGYHLPNVS LTFQAWHHLS DSERLCFLAT TLRPFAMLG GLGTQGTWTS SEREQLWAMR LDLRDLHRHL RFQVLAAGFK CSKEEDKEE EEEEEEEEKK LPLGALGGPN QVSSQVSWPQ LLYTYQLLHS LELVLSRAVR DLLLLSLPRR PGSAWDS
Sequence Length	234
Solubility	It is recommended to reconstitute the lyophilized IL-27 in sterile 18Momega-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Mouse p28 biological activity was measured via dose-dependent inhibition of TGF-beta and 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.
Preparation and Storage	Lyophilized IL-27 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IL27 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mIL 27 active protein

Description: Interleukin-27 Mouse Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 207 amino acids and having a molecular mass of 23.7 kDa. The Murine IL-27 is purified by proprietary chromatographic techniques.

Introduction: Interleukin-27 protein is related to IL-12A & is one of the subunits of a heterodimeric cytokine complex. IL-27 interacts with EBV induced gene 3 also called EBI3, and forms a complex that drives rapid expansion of CD4 (+) T cells. IL-27 complex synergizes with IL-12 in order to trigger the cytokine production of IFN-Gamma of CD4 (+) T cells. The biological effect of IL-27 is mediated by class-I cytokine receptor (WSX1/TCRR). The pro-inflammatory activity of IL-27 is mediated through the growing expression of key molecules involved in the MHC class-I & MHC class-II pathways. Both MHC class-I and MHC-class-II expression are increased in endothelial cells after Interleukin-27 stimulation which suggests that it may play an important role in conferring the immune function on vascular endothelium IL-27p28 subunit can be induced by IFN-beta and during LPS-induced maturation of dendritic cells in type-I IFN-dependent manner through IFN regulatory factor-1 activation. Interleukin-27 regulates Interleukin-12 responsiveness of CD4+ T cells through Stat1-dependent and -independent mechanisms. IL-17 & IL-23 play an important IL-17 role in inflammation. Interleukin-27 possesses potent anti-angiogenic activity that plays an important role in its antitumor and antimetastatic activities. EBV induced gene 3 plays a role, independently from IL-27, in regulating anti-viral or anti-tumoral immune responses. Interleukin-27 is a potent inhibitor of HIV-1 replication in macrophages, CD4+ T cells, peripheral blood mononuclear cells. Interleukin-27 triggers STAT activation and gene transcription.

Product Categories/Family for mIL 27
active protein

Cytokines and Growth Factors; Cytokines; Interleukin

NCBI AND UNIPROT INFORMATION

NCBI GI #	21704110
NCBI GeneID	246779
NCBI Accession #	NP_663611.1
NCBI GenBank Nucleotide #	NM_145636.1
UniProt Accession #	Q8K3I6
Molecular Weight	26,542 Da
NCBI Official Full Name	interleukin-27 subunit alpha
NCBI Official Synonym Full Names	interleukin 27
NCBI Official Symbol	IL27
NCBI Official Synonym Symbols	p28; IL30; IL-27; IL-27p28
NCBI Protein Information	interleukin-27 subunit alpha; IL-27 p28 subunit; IL-27 subunit alpha; IL-27-A; IL27-A; interleukin 30
UniProt Protein Name	Interleukin-27 subunit alpha
UniProt Gene Name	IL27
UniProt Synonym Gene Names	IL27a; IL-27 subunit alpha; IL-27-A; IL27-A
UniProt Entry Name	IL27A_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mil-27-active-protein/interleukin-27/38595>