

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

32-1502: mIL 27 Recombinant Protein

Alternative Interleukin-30,IL-30,IL-27/p28,p28,Interleukin-27,Interleukin-27/p28,IL-27,Interleukin-27 subunit alpha,IL-27 subunit alpha,IL-27 subunit alpha,IL27-A,II27,II27a,IL-27p28.

Description

Source: Escherichia Coli. 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. 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 is 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 Stat1dependent 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 Info

Amount: $10 \mu g$

Purification: Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Content: Lyophilized from 10mM Sodium Phosphate (NaP) buffer pH-7.5.

Lyophilized IL-27 although stable at room temperature for 3 weeks, should be stored desiccated

Storage condition: below -18°C. Upon reconstitution IL27 should be stored at 4°C between 2-7 days and for future

use below -18°C.Please prevent freeze-thaw cycles.

Amino Acid: MFPTDPLSLQ ELRREFTVSL YLARKLLSEV QGYVHSFAES RLPGVNLDLL PLGYHLPNVS LTFQAWHHLS

DSERLCFLAT TLRPFPAMLG GLGTQGTWTS SEREQLWAMR LDLRDLHRHL RFQVLAAGFK CSKEEEDKEE EEEEEEEKK LPLGALGGPN QVSSQVSWPQ LLYTYQLLHS LELVLSRAVR DLLLLSLPRR PGSAWDS.

Application Note

It is recommended to reconstitute the lyophilized IL-27 in sterile $18M\tilde{A}_{\Box}\hat{A}_{\odot}$ -cm H2O not less than $100\tilde{A}_{\Box}\hat{A}_{\mu g/ml}$, which can then be further diluted to other aqueous solutions. 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 corresponding to a Specific Activity of 20,000lU/mg of mouse p28 is capable of inhibiting >25% of IL-17A expression in this assay.



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