

IL-27 Protein, Mouse (228a.a, HEK293, C-His)

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| Cat. No.: | HY-P73200A |
| Synonyms: | Interleukin-27 subunit beta; IL-27B; Ebi3; Interleukin-27 subunit alpha; IL-27A; p28 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | O35228 (Y19-P228) & GSGSGSGSGSGK & Q8K3I6 (F29-S234) |
| Gene ID: | 50498&246779 |
| Molecular Weight: | Approximately 57.6 kDa |

PROPERTIES

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| AA Sequence | <pre> Y T E T A L V A L S Q P R V Q C H A S R Y P V A V D C S W T P L Q A P N S T R S T S F I A T Y R L G V A T Q Q Q S Q P C L Q R S P Q A S R C T I P D V H L F S T V P Y M L N V T A V H P G G A S S S L L A F V A E R I I K P D P P E G V R L R T A G Q R L Q V L W H P P A S W P F P D I F S L K Y R L R Y R R R G A S H F R Q V G P I E A T T F T L R N S K P H A K Y C I Q V S A Q D L T D Y G K P S D W S L P G Q V E S A P H K P G S G S G G S G G S G S G K L F P T D P L S L Q E L R R E F T V S L Y L A R K L L S E V Q G Y V H S F A E S R L P G V N L D L L P L G Y H L P N V S L T F Q A W H H L S D S E R L C F L A T T L R P F P A M L G G L G T Q G T W T S S E R E Q L W A M R L D L R D L H R H L R F Q V L A A G F K C S K E E E D K E E E E E E E E E E K K L P L G A L G G P N Q V S S Q V S W P Q L L Y T Y Q L L H S L E L V L S R A V R D L L L L S L P R R P G S A W D S </pre> |
| Biological Activity | Measured in a cell proliferation assay using TF-1 Human Erythroleukemia Cells. The ED ₅₀ this effect is 52.01 ng/ml, corresponding to a specific activity is 1.923×10 ⁴ units/mg. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4. |
| Endotoxin Level | <1 EU/μg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

IL-12, in association with IL23A, forms the IL-23 interleukin, a heterodimeric cytokine that plays essential roles in innate and adaptive immunity. This cytokine is implicated in the acute response to infection in peripheral tissues and binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activating the Jak-Stat signaling cascade. IL-23 stimulates memory T-cells rather than naive T-cells and promotes the production of pro-inflammatory cytokines. It has been identified as a contributor to autoimmune inflammation, potentially responsible for autoimmune inflammatory diseases and implicated in tumorigenesis. Additionally, IL-12 functions as a growth factor for activated T and NK cells, enhancing the lytic activity of NK/lymphokine-activated killer cells, and stimulating interferon-gamma production by resting PBMC.

Caution: Product has not been fully validated for medical applications. For research use only.

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