

32-12174: Mouse Interleukin-12

Gene : Il12b
Gene ID : 16160
Uniprot ID : P43432/P43431
Alternative Name : Cytotoxic lymphocyte maturation factor 40 kDa subunit, IL-12 subunit p40, NKSF, CLMF

Description

Source: Genetically modified HEK 293 cells.

Å Heterodimer, p35: 21.7 kDa, p40: 35.8 kDa, total: 57.5 kDa kDa (p35: 193 aa, p40: 313 aa, total: 506 aa amino acids aa)
Interleukin 12 (IL-12) is an inducer of cell-mediated immunity and is produced by dendritic cells, macrophages, and B cells after antigen stimulation. IL-12 functions to promote na⁺ve T cell differentiation into the type 1 T helper cell (Th1) lineage. IL-12 also stimulates the production of interferon gamma (IFN-gamma) and tumor necrosis factor alpha (TNF-alpha) from T cells and natural killer cells. Mouse IL-12 is active on human and mouse cells.

Product Info

Amount : 10 µg / 100 µg
Purification : Reducing and Non-Reducing SDS PAGE at >= 95%
Content : Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
Sterile water at 0.1 mg/mL
Storage condition : Store at -20°C
Amino Acid : p35: RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR EKLKHYSC TA EDIDHEDITR DQTSTLKTCL
PLELHKNE SC LATRETSSTT RGSLPPQKT SLMMTLCLGS IYEDLKMYQT EFQAINAALQ NHHHQIILD
KGMLVAIDEL MQSLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRV VTINRVMGYL SSA p40:
MWELEKDVYV VEVDWTPDAP GETVNLTC DT PEEDDITWTS DQRHGVI GSG KTLTITVKEF LDAGQYTCHK
GGETLSHSHL LLHKKENGIW STEILKNFKN KTLFKCEAPN YSGRFTCSWL VQRNMDLKF N IKSSSSSPDS
RAVTCGMASL SAEKVTL DQR DYEKYSVSCQ EDVTCPT

Application Note

Endotoxin: Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.

Biological Activity was determined by Mouse primary T cell induced expression of CD25 at <= 20 ng/mL; >= 5.0 x 10⁴ units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80Å°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss. Å Å Å

