

## 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<sup>+</sup>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 DQRHGVIGSG KTLTITVKEF LDAGQYTCHK  
GGETLSHSHL LLHKKENGIW STEILKNFKN KTFKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSSPDS  
RAVTCGMASL SAEKVTLDQR DYKYSVSCQ 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 10<sup>4</sup> 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 vialled to compensate for this loss. ÅÅ ÅÅ

