

IL-12, Human CellExp™, mouse recombinant

CATALOG #:	4719-10 4719-100	10 µg 100 µg
SOURCE:	HEK 293 cells	
PURITY:	≥ 95 % by SDS-PAGE	
ENDOTOXIN LEVEL:	≤ 1 EU/µg protein	
MOL. WEIGHT:	70 kDa	
FORMULATION:	Recombinant mouse IL-12 is lyophilized from 0.5 x PBS, pH 7.5.	

RECONSTITUTION:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

STORAGE CONDITIONS:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

DESCRIPTION:

Interleukin-12 (IL-12) is an important mediator of cellular-immunity produced by dendritic cells, macrophages and B cells when stimulated with antigen. IL-12 is involved in differentiating precursor helper T cells to Th1 and/or Th2 subtypes and promotes the production of IFN gamma and TNF alpha. Mouse IL-12 is active on human and mouse cells. Recombinant mouse IL-12 is a glycosylated, disulfide-linked heterodimer. It is containing one p35 subunit (35 kDa) and one p40 subunit (40 kDa), with a total of 506 amino acids and a molecular weight of approximately 70 kDa.

BIOLOGICAL ACTIVITY:

The activity is determined by the induced expression of CD25 on CD8+ mouse T cells and is typically detectable starting at 0.1 ng/mL.

AA Sequence:

p35 Subunit: RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR EKLKHYSCTA EDIDHEDITR DQTSTLKTCL PLELHKNESCLATRETSSTT RGSCSLPPQKT SLMMTLCLGS IYEDLKMYQT EFQAINAALQ NHHHQIILD KGMLVAIDEL MQLNHNGET LRQKPPVGEA DPYRVKMKLC ILLHAFSTRV VTINRVMGYL SSA

p40 Subunit: MWELEKDVVY VEVDWTPDAP GETVNLCTD PEEDDITWTS DQRHGVIKSG KTLTITVKEF LDAGQYCHK GGETLSHSHL LLHKKENGIW STEILKNFKN KTLKCEAPN YSGRFTCSWL VQRNMDLKFN IKSSSSPDS RAVTCGMASL SAEKVTLQDR DYKYSVSCQ EDVTCPTAEE TLPLEALEA RQNKYENYS TSFFIRDIK PDPPKNLQMK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKMK ETEEGCNQKG AFLVEKTSTE VQCKGGNVCV QAQDRYYNSS CSKWACVPCR VRS

RELATED PRODUCTS:

- IL-12, human recombinant (**Cat. No. 4161-10, 100**)
- IL-12, rat recombinant (**Cat. No. 4163-10, 100**)
- IL-12p40, human recombinant (**Cat. No. 4732-10, 50, 1000**)

FOR RESEARCH USE ONLY! Not to be used on humans.

