

DATASHEET Version 20181206

IL-12, Mouse

Cat. No.: Z03211-10

Size: 10.0 ug

Synonyms: NKSF, TCMF, CLMF, TSF

Description:

Interleukin-12 (IL-12), also known as NKSF, TCMF, CLMF and TSF, is a heterodimeric cytokine composed of p35 and p40 subunits. It is produced by monocytes, macrophages, B cells and dendritic cells in response to bacterial lipopolysaccharides and intracellular pathogens. IL-12 signals throughtheIL-12 receptor complex, which is comprised of IL-12 R β 1 and IL-12 R β 2. IL-12 induces the proliferation and activation of hematopoietic stem cells, natural killer cells and T- cells. It is indispensible during the development of Th1 cells, leading to the production of IFN-gamma and IL-2.

Amino Acid Sequence:

p35 Subunit:p40 Subunit:

00001 RVIPVSGPAR CLSQSRNLLK TTDDMVKTAR EKLKHYSCTA
00041 EDIDHEDITR DQTSTLKTCL PLELHKNESC LATRETSSTT
00081 RGSCLPPQKT SLMMTLCLGS IYEDLKMYQT EFQAINAALQ
00121 NHNHQQIILD KGMLVAIDEL MQSLNHNGET LRQKPPVGEA
00161 DPYRVKMKLC ILLHAFSTRV VTINRVMGYL SSAMWELEKD
00201 VYVVEVDWTP DAPGETVNLT CDTPEEDDIT WTSDQRHGVI
00241 GSGKTLTITV KEFLDAGQYT CHKGGETLSH SHLLLHKKEN
00281 GIWSTEILKN FKNKTFLKCE APNYSGRFTC SWLVQRNMDL
00321 KFNIKSSSSS PDSRAVTCGM ASLSAEKVTL DQRDYEKYSV
00361 SCQEDVTCPT AEETLPIELA LEARQQNKYE NYSTSFFIRD
00401 IIKPDPPKNL QMKPLKNSQV EVSWEYPDSW STPHSYFSLK
00441 FFVRIQRKKE KMKETEEGCN QKGAFLVEKT STEVQCKGGN

Source: CHO Species: Mouse

Biological Activity: $ED_{50} < 0.15$ ng/ml, measured in

a cell proliferation assay using 2D6 cells.

Molecular Weight: 27-29 kDa (p35) and 45-50 kDa

(p40), observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis

against PBS.

Reconstitution: Reconstituted in ddH2O or PBS at

100 ua/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/ μ g, determined by LAL

method.

Storage: Lyophilized recombinant murineInterleukin-12 (IL-12), remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, murine Interleukin-12 (IL-12), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.