

DATASHEET Version 20181206

IL-12, His, Rat

Cat. No.: Z03210-10

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 through the IL-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:p40:

00001RVIPVSGPAKCLNQSQNLLKTTDDMVRTAREKLKHYSCTA00041GDIDHEDITRDKTSTLEACLPLELHKNESCLATKETSSII00081RGSCLPPQKTSLMMTLCLGSIYEDLKMYQSEFQAINAALQ00121SHNHQQITLDRNMLMAIDELMRSLNHSGETLHQKAPMGEA00161DPYRVKMKLCILLHAFSTRVMTINRVMNYLSSSHHHHHHM00201WELEKDYYVVEVDWRPDAPGETVTLTCDSPEEDDITWTSD00241QRRGVIGSGKTLTITVREFLDAGQYTCHRGGETLSHSHLL00281LHKKENGIWSTEILKNFKNKTFLKCEAPNYSGRFTCSWLV00321HRNTDLKFNIKSSSSSPESRAVTCGRASLSAEKVTLNQRD00361YEKYSVACQEDVTCPTAEETLPIELVVEAQQQNKYENYST00401SFFIRDIIKPDPKNLQVKPLKNSQVEVSWEYPDSWSTPH00441SYFSLKFFVRIQRKKEKTKETEEECNQKGAFLVEKTSAEV00481QCKGANICVQAQDRYYNSSCSKWTCVPCRGRS

Source: CHO Species: Rat

Biological Activity: ED₅₀< 0.1ng/ml, measured in a

cell proliferation assay using 2D6 cells.

Molecular Weight: 26-28kDa (p35) and 42-45 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 rat Interleukin-12 (IL-12), His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rat Interleukin-12 (IL-12), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.