



Recombinant Mouse IL-22

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-072
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	50929
Synonyms:	IL22; IL-22; Iltif; IL-22a; ILTIFa

IL-22 is a member of the IL-10 family of regulatory cytokines which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes, IL-22 inhibits IL-4 production by Th2 cells, and induces acute phase reactants in the liver and pancreas. IL-22 signals through a receptor system consisting of IL-10R-β/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family. Recombinant murine IL-22 is a 32-34 kDa non-disulfide-linked homodimeric protein containing of two 146 amino acid polypeptide chains.

Sequence

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MLPVNTRCKL EVSNFQQPYI VNRTFMLAKE ASLADNNTDV  
RLIGEKLFGR VSAKDQCYLM KQVLNFTLED VLLPQSDRFQ  
PYMQEVPFPL TKLSNQLSSC HISGDDQNIQ KNVRRLKETV  
KKLGESGEIK AIGELDLLFM SLRNACV
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Database References

Protein RefSeq:	NP_058667.1
Uniprot ID:	Q9JJY9
mRNA RefSeq:	NM_016971

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	146
MW:	33.4 kDa

Biological Activity: Assay#1: Determined by its ability to activate STAT following receptor ligand interaction. Assay#2: Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The expected ED50 for this effect is 1.0-2.0 ng/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!