

Recombinant Murine Interleukin-22 (rm IL-22)

Interleukin-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-beta/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family.

Recombinant murine IL-22 produced in *E. coli* is a 33.4 kDa non-disulfide-linked homodimeric protein containing of two 146 amino acid polypeptide chains.

Synonyms : IL-TIF, IL-10-related T-cell-derived-inducible factor

Source: *Escherichia coli*

AA Sequence: MLPVNTRCKL EVSNFQQPYI VNRTFMLAKE ASLADNNTDV RLIGEKLFRRG
VSAKDQCYLM KQVLNFTLED VLLPQSDRFQ PYMQEVVPPFL TKLSNQLSSC
HISGDDQNIQ KNVRRLLKETV KKLGESGEIK AIGELDLLFM SLRNACV

Formulation: Lyophilisate from a 0.22 µm filtered carrier free solution in 25 mM sodium phosphate pH 7.0 + 200 mM NaCl.

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm IL-22 is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

Biological Activity: Determined by its ability to induce IL-10 secretion in Colo205 cells the ED50 is less than 0.5ng/ml, corresponding to a specific activity of 2.0 x 10⁶ IU/mg.

Purity: 95% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Order N°: rm IL-22+Size
available sizes: 2 µg, 10 µg, 50 µg

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