DATASHEET
Version 20181206

IL-22, Mouse

Cat. No.: Z03350-1

Size: 1.0 mg

Synonyms: IL-22; Interleukin-22

Description:

Interleukin-22 (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 sequence, but differ in their biological function. IL-22 is produced by T lymphocytes, and can inhibit IL-4 production by Th2 cells and induce acute phase reactants in the liver and pancreas. IL-22 signals through a receptor system consisting of IL-10R-ß/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family. By binding to a cell surface complex composed of IL-22R1 and IL-10R2 receptor chains, IL-22 specifically targets cells of epithelial origin where it induces pro-inflammatory activities. Recombinant mouse Interleukin-22 (rmIL-22) produced in CHO cells, is a polypeptide chain containing 146 amino acids. It has a molecular mass of 20 30 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 LPVNTRCKLE VSNFQQPYIV NRTFMLAKEA SLADNNTDVR
00041 LIGEKLFRGV SAKDQCYLMK QVLNFTLEDV LLPQSDRFQP
00081 YMQEVVPFLT KLSNQLSSCH ISGDDQNIQK NVRRLKETVK
00121 KLGESGEIKA IGELDLLFMS LRNACV
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Source: *CHO*

Biological Activity: ED_{50} < 0.5ng/ml, measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells).

Molecular Weight: 20 30 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized from a 0.2 μm solution in PBS with no additive.

Reconstitution: Reconstituted in sterile ddH_2O or PBS at 100μg/ml.

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

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant Mouse Interleukin-22 (rmIL-22) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmIL-22 should be stable up to 1 week at 4°C or up to 3 months at -20°C under sterile conditions. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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