

DATASHEET

Version 20181206

IL-22, Mouse**Cat. No.:** Z03350-50**Size:** 50.0 ug**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 Th2 cells and induce 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. 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:

00001 LPVNTCKLE VSNFQQPYIV NRTFMLAKEA SLADNNTDVR
00041 LIGKLFGRGV SAKDQCYLMK QVLNFTLEDV LLPQSDRFQP
00081 YMQEVVPFLT KLSNQLSSCH ISGDDQNIQK NVRLKETVK
00121 KLGESGEIKA IGELDLLFMS LRNACV

Source: CHO**Biological Activity:** ED₅₀ < 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 μ m solution in PBS with no additive.**Reconstitution:** Reconstituted in sterile ddH₂O or PBS at 100 μ g/ml.**Purity:** > 95% as analyzed by SDS-PAGE&HPLC.**Endotoxin Level:** < 0.2 EU/ μ g, 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.