

DATASHEET
Version 20181206**IL-22, Mouse****Cat. No.:** Z03315-50**Size:** 50.0 ug**Synonyms:** IL-TIF, IL-22, Interleukin-22**Description:**

Interleukin-22 (IL-22) is a member of a group of cytokines called the IL-10 family which include IL-10, IL-19, IL-20, IL-24, and IL-26. IL-22 shares use of the IL-10R2 in cell signaling with other members of this family. 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. IL-22 is produced by activated DCs and T cells and initiates an innate immune response against bacterial pathogens especially in epithelial cells such as those in the respiratory tract and gut. IL-22 along with IL-17 is rapidly produced by splenic LTI-like cells and can also be produced by Th17 cells, which plays a likely role in the coordinated response of both adaptive and innate immune systems.

Recombinant Mouse IL-22 produced in *E. coli* is a single non-glycosylated polypeptide chain containing 147 amino acids. A fully biologically active molecule, rIL-22 has a molecular mass of 16.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Source: *E. coli***Biological Activity:** ED₅₀ < 0.5 ng/ml. Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells).**Molecular Weight:** 16.8 kDa, observed by reducing SDS-PAGE**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 μ g/ml.**Purity:** > 98% as analyzed by SDS-PAGE & HPLC.**Endotoxin Level:** < 0.2 EU/ μ g, determined by LAL method.**Storage:** Lyophilized recombinant Mouse IL-22 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse IL-22 should be stable up to 1 week at 4°C or up to 3 months at -20°C.