

## **Product Datasheet**

## RecombinantIL-22, Mouse (orb1494822)

Catalog Number orb1494822

**Category** Proteins

**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-ß/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 MouseIL-22 produced in E.coli is a single non-glycosylated polypeptide chain containing 147 amino acids. A fully biologically active molecule, rmIL-22 has a molecular mass of 16.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic

techniques at GenScript.

**Form/Appearance** Lyophilized after extensive dialysis against PBS.

**Buffer/Preservatives** Lyophilized after extensive dialysis against PBS.

**Purity** > 98% as analyzed by SDS-PAGE& HPLC.

**Purification** > 98% as analyzed by SDS-PAGE& HPLC.

Protein Sequence MLPVNTRCKL EVSNFQQPYI VNRTFMLAKE ASLADNNTDV RLIGEKLFRG

VSAKDQCYLM K QVLNFTLED VLLPQSDRFQ PYMQEVVPFL TKLSNQLSSC

HISGDDQNIQ KNVRRLKETV K KLGESGEIK AIGELDLLFM SLRNACV

**MW** 16.8 kDa, observed by reducing SDS-PAGE

**Application notes** Reconstituted in ddH2O or PBS at 100 μg/ml.

**Endotoxins** 0.2 EU/μg, determined by LAL method.

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**Source** Escherichia coli.

**Biological Activity** ED50 0.5 ng/ml. Measured by its ability to induce IL-10 secretion in COLO 205

(human colon carcinoma cells).

**Storage** Lyophilized recombinant Mouse IL-22 remains stable up to 6 months at -80°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.

**Note** For research use only

**Expiration Date** 6 months from date of receipt.