

Rev04
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DATASHEET

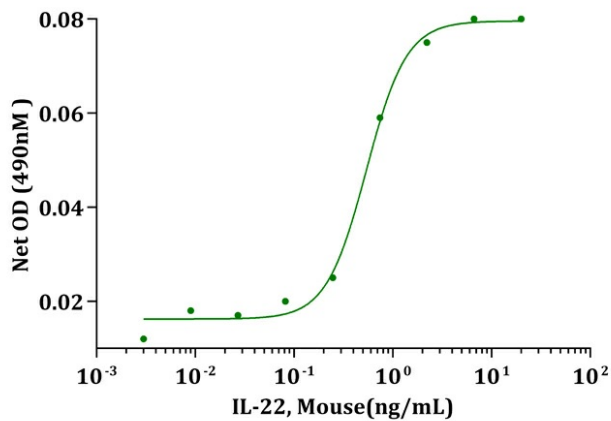
IL-22, Mouse

Cat. No.: Z03350

Product Introduction

Species	Mouse
Protein Construction	IL-22 (Leu34-Val179) Accession # Q9JJY9
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 0.5 ng/ml, measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells).
Expression System	CHO
Apparent Molecular Weight	20~30 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



Biological Activity

IL-22, Mouse (Cat. No. Z03350) stimulates cell proliferation of COLO 205 cells. The ED₅₀ for this effect is less than 0.5ng/mL.

Background

Target Background : 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.

Synonyms : IL22; IL-21; IL-22; IL-D110; IL-TIF; ILTIF; TIFIL-23; TIFa; zcyto18; interleukin 22

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.