

Rev03
Update: Dec,14,2021

DATASHEET

IL-22, Mouse

Cat. No.: Z03315

Product Introduction

Species	Mouse
Protein Construction	Expressed with an N-terminal Met. IL-22 (Leu34-Val179) Accession # Q9JJY9
Purity	> 98% as analyzed by SDS-PAGE > 98% 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	E. coli
Apparent Molecular Weight	~16.8 kDa, observed by reducing SDS-PAGE
Formulation	Lyophilized after extensive dialysis against 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.

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.