

Rev02
 Update: Aug,08,2025

DATASHEET

IL-22R alpha 1 hFc Chimera, Rat

Cat. No.: Z06424

Product Introduction

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|-------------------------------------|---|
| Species | Rat |
| Protein Construction | <div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> IL-22R alpha 1 (His16-Ala228)_x000D_ Accession # NP_001178798.1 </div> <div style="background-color: #90c090; color: white; padding: 5px; text-align: center;"> hFc </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div> |
| Purity | > 95% as determined by BisTris PAGE > 95% as determined by HPLC |
| Endotoxin Level | Less than 1EU per µg by the LAL method. |
| Biological Activity | Measured by its binding ability in a functional ELISA. Immobilized Human IL22, His Tag at 5µg/ml (100µl/well) on the plate can bind IL-22R alpha 1 hFc Chimera, Rat. Test result was comparable to standard batch. |
| Expression System | HEK293 |
| Theoretical Molecular Weight | 51.08 kDa |
| Apparent Molecular Weight | Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result. |
| Formulation | Lyophilized from 0.22µm filtered solution in PBS, 100m L-Arginine (pH 7.4). |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage & Stability | Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles. |

Background

Target Background : Interleukin (IL)-22 is a member of the IL-10 family of cytokines and represents an important effector molecule of activated Th22, Th1, and Th17 cells, as well as Tc-cell subsets, gammadelta T cells, natural killer (NK), and NKT cells. IL-22 mediates its effects via a heterodimeric transmembrane receptor complex consisting of IL-22R1 and IL-10R2 and subsequent Janus kinase-signal transducers and activators of transcription (JAK-STAT) signaling pathways including Jak1, Tyk2, and STAT3.

Synonyms : IL-22R-alpha-1; IL-22RA1; CRF2-9; IL22R; IL22R1; IL-TIF-R1; zcytoR11

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