

IL-22RA1 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	IL-22R α 1; IL22R; zcytoR11; IL-TIF-R1; CRF2-9; IL-22R-alpha-1; IL-22R- α -1; IL22R1; IL-22RA1
Protein Construction:	His16-Ala228
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q80XZ4
Molecular Weight:	51.1 kDa (predicted). Due to glycosylation, the protein migrates to 65-68 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Biotinylated Mouse IL-22, His Tag at 2 μ g/ml (100 μ l/well) on the streptavidin precoated plate (5 μ g/ml). Dose response curve for Mouse IL-22R alpha 1, hFc Tag with the EC50 of 6.2ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Wolk K, et al. Biology of interleukin-22. Semin Immunopathol. 2010 Mar;32(1):17-3doi: 10.1007/s00281-009-0188-x. Epub 2010 Feb 2. PMID: 20127093.

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