

IL-22RA1 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	CRF2-9;IL22R1;IL-22R- α -1;IL-22RA1;zcytoR11;IL22R;IL-22R-alpha-1;IL-22R α 1;IL-TIF-R1
Protein Construction:	Pro18-Thr225
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5TKX9
Molecular Weight:	24.84 kDa (predicted). Due to glycosylation, the protein migrates to 38-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Cynomolgus IL-22R alpha 1, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-22, His Tag with an affinity constant of 60.21 nM as determined in SPR assay.
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

IL-22 receptor, also known as IL-22 R alpha 1 and CRF2-9, is an approximately 65 kDa transmembrane glycoprotein in the type II cytokine receptor family (CRF). Component of the receptor for IL20, IL22 and IL24. Component of IL22 receptor formed by IL22RA1 and IL10RB enabling IL22 signaling via JAK/STAT pathways. IL22 also induces activation of MAPK1/MAPK3 and Akt kinases pathways. Component of one of the receptor for IL20 and IL24 formed by IL22RA1 and IL20RB also signaling through STATs activation. Mediates IL24 antiangiogenic

activity as well as IL24 inhibitory effect on endothelial cell tube formation and differentiation.

Reference

Blake S J, Teng M W L. Role of IL-17 and IL-22 in autoimmunity and cancer[J]. Actas Dermo-Sifiliográficas, 2014, 105S1(Suppl 1):41-50.

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