

Recombinant Rat IL22RA1 Protein (Met1-Ala228), HlgG1 Fc-tagged

Cat. No. IL22RA1-955R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IL22RA1 Protein (NP_001178798.1) (Met1-Ala228) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of human IgG1 at the C-terminus.
Species	Rat
Source	HEK293
ProteinLength	Met1-Ala228
Description	IL-22R belongs to the type II cytokine receptor family. It contains 2 fibronectin type-III domains and is expressed in colon, liver, lung, pancreas and kidney. IL-22R also can be expressed in keratinocytes of normal skin as well as in psoriatic skin lesion. Overexpression of IL-22R can be detected in synovial fluid cells from rheumatoid arthritis and spondyloarthropathy patients. IL-22R is a component of the receptor for IL2, IL22 and IL24. The component of IL-22R formed by IL22RA1 and IL1RB enables IL22 signaling via JAK/STAT pathways. IL22 also induces activation of MAPK1/MAPK3 and Akt kinases pathways. Component of one of the receptor for IL2 and IL24 formed by IL22RA1 and IL2RB also signaling through STATs activation. IL-22R mediates IL24 antiangiogenic activity as well as IL24 inhibitory effect on endothelial cell tube formation and differentiation.
Predicted N Terminal	Thr 18

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Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rat IL22ra1 consists 449 amino acids and predicts a molecular mass of 50.8 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	IL22ra1 interleukin 22 receptor, alpha 1 [Rattus norvegicus]
Official Symbol	IL22RA1
Synonyms	IL22RA1; interleukin 22 receptor, alpha 1; RGD1559655;

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Gene ID	362629
mRNA Refseq	NM_001191869
Protein Refseq	NP_001178798
UniProt ID	D3ZIM3

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