## Recombinant Rat IL-22R/IL22RA1 Protein (ECD, Fc Tag)

## Catalog Number: PKSR030161

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Species	Rat
Source	HEK293 Cells-derived Rat IL-22R/IL22RA1 protein Met1-Ala228, with an C-terminal
	hFc
Calculated MW	50.8 kDa
Accession	NP_001178798.1
Bio-activity	Not validated for activity
Properties	
Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80
	°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of
	reconstituted samples are stable at $< -20^{\circ}$ C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4
	Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants
	before lyophilization.
	Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

## Data

KDa	Μ
116	-
66.2	
45.0	-
35.0	-
25.0	-
18.4 14.4	-

> 95 % as determined by reducing SDS-PAGE.

## Background

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 IL20, IL22 and IL24. The component of IL-22R formed by IL22RA1 and IL10RB 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 IL20 and IL24 formed by IL22RA1 and IL20RB also signaling through STATs activation. IL-22R mediates IL24 antiangiogenic activity as well as IL24 inhibitory effect on endothelial cell tube formation and differentiation.

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