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

Catalog Number: **80453-R02H**

Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

CRF2-9; IL22R; IL22R1; 9130219A07Rik; ENSMUSG00000073746; IL-22R; Il22r

Protein Construction:

A DNA sequence encoding the rat Il22ra1 (NP_001178798.1) (Met1-Ala228) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Rat

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin:

< 1.0 EU per μg protein as determined by the LAL method.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Thr 18

Molecular Mass:

The recombinant rat Il22ra1 consists 449 amino acids and predicts a molecular mass of 50.8 kDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

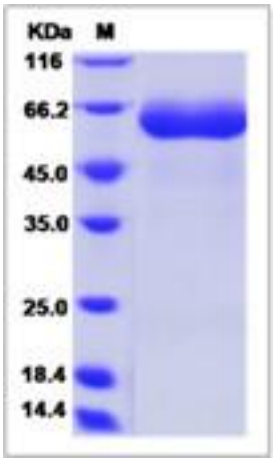
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein 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 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.

References

1.Xie MH, et al. (2000) Interleukin (IL)-22, a novel human cytokine that signals through the interferon receptor-related proteins CRF2-4 and IL-22R. J Biol Chem. 275(40):31335-9.
2.Xu W, et al. (2001) A soluble class II cytokine receptor, IL-22RA2, is a naturally occurring IL-22 antagonist. Proc Natl Acad Sci. 98(17):9511-6.
3.Wu PW, et al. (2008) IL-22R, IL-10R2, and IL-22BP binding sites are topologically juxtaposed on adjacent and overlapping surfaces of IL-22. J Mol Biol. 382(5):1168-83.