

Human IL20RA Protein (His Tag)

Catalog Number: 10397-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

CRF2-8; IL-20R-alpha; IL-20R1; IL-20RA; E230031K19

Protein Construction:

A DNA sequence encoding the extracellular domain of human IL20R α isoform 1 (NP_055247.21) (Met 1-Lys 250) was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μ g of the protein as determined by the LAL method

Stability:

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

Predicted N terminal: Val 30

Molecular Mass:

The recombinant human IL20R α consists of 232 amino acids and has a calculated molecular mass of 26.8 kDa. As a result of glycosylation, rhIL20R α migrates as an approximately 40-45 kDa protein in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.2

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:

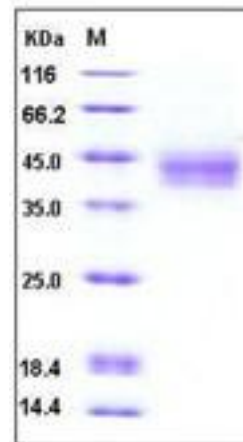
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Interleukin 20 receptor, alpha subunit (IL20RA/IL-20RA) also known as IL-20 receptor subunit alpha, Cytokine receptor class-II member 8, interleukin-20 receptor I, and interleukin-20 receptor subunit alpha, is a subunit for the interleukin-20 receptor. IL20RA/IL-20RA belongs to the type II cytokine receptor family. This cytokine is a receptor for interleukin 20 (IL20), a cytokine that may be involved in epidermal function. The receptor of IL20 is a heterodimeric receptor complex consisting of this protein and interleukin 20 receptor beta (IL20B). IL20RA forms heterodimer with IL20RB, and the complex serves as a receptor for IL19, IL20 and IL24. All three are capable of signaling through IL-20RA/IL-20RB complex. The ligand binding to receptor B creating a high-affinity binding site for the receptor A which is recruited to complete the complex. In addition, IL20RA also forms a heterodimer with the unique and specific receptor IL10RB and functions as the receptor for IL26. IL20RA is widely expressed with highest levels in skin, testis and brain. The expression of both IL20RA and IL20RB is found to be upregulated in psoriatic skin lesions on keratinocytes.

References

1. Parrish-Novak J, *et al.* (2002) Interleukins 19, 20, and 24 signal through two distinct receptor complexes. Differences in receptor-ligand interactions mediate unique biological functions. *J Biol Chem.* 277(49): 47517-23.
2. Kingo K, *et al.* (2008) Association analysis of IL20RA and IL20RB genes in psoriasis. *Genes Immun.* 9(5): 445-51.
3. Blumberg H, *et al.* (2001) Interleukin 20: discovery, receptor identification, and role in epidermal function. *Cell.* 104(1): 9-19.

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