

IL-20RA Protein, Human, Recombinant (His)

General Information

Synonyms:	IL-20R1;IL-20R- α ;CRF2-8;interleukin 20 receptor, alpha;IL-20R-alpha;IL-20RA;interleukin 20 receptor, α
Protein Construction:	A DNA sequence encoding the extracellular domain of human IL20R α isoform 1 (NP_055247.3) (Met 1-Lys 250) was fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Val 30
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9UHF4-1
Molecular Weight:	26.8 kDa (predicted); 40-45 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Recombinant Human IL20/Interleukin-20 Protein (Cat#TMPY-02959) immobilized on CM5 chip, can bind Recombinant Human IL20RA Protein (His Tag) (Cat#TMPY-01054) with an affinity constant of 4.030 μ M as determined in an SPR assay (Biacore 8K) (QC tested).
Purity:	> 95 % as determined by SDS-PAGE
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 7.2. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

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 the 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 the IL-20RA/IL-20RB complex. The ligand binding to receptor B creating a high-affinity binding site for receptor A which is recruited to complete the complex. Besides, IL20RA also forms a heterodimer with the unique and specific receptor IL10RB and functions as the receptor for IL26. IL20RA is widely expressed with the 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.

Reference

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.
Kingo K, et al. (2008) Association analysis of IL20RA and IL20RB genes in psoriasis. *Genes Immun.* 9(5): 445-51.
Blumberg H, et al. (2001) Interleukin 20: discovery, receptor identification, and role in epidermal function. *Cell.* 104(1): 9-19.

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