

## C5AR1 Protein-VLP, Human, Recombinant (His)

## General Information

Synonyms:	C5a anaphylatoxin chemotactic receptor (C5a-R;C5aR);C5a anaphylatoxin chemotactic receptor 1;C5AR;C5AR1;CD88;C5R1
Protein Construction:	1-350 aa
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P21730
Molecular Weight:	41.1 kDa (predicted)
AA Sequence:	MDSFNYYTPDYGHYDDKDTLDLNTVPDKTSNTLRVPDILALVIFAVVFLVGLGNALVVVWTAFAEKRTINAI WFLNLAVADFLSCLALPILFTSIVQHHHWPFGGAAACSILPSLILLNMYASILLLATISADRFLLVFKPIWCQNFRG AGLAWIACAVAWGLALLLTIPSFLYRVVREEYFPPKVLGVDYSHDKRRERAVAIVRLVLGFLWPLLTLTICYTFI LLRTWSRRATRSTKTLKVVAVVASFFIFWLPYQVTGIMMSFLEPSSPTFLLKLDLCSLVSFAYINCCINPIIYVV AGQGFQGRRLKSLPSLLRNVLTEESVVRESKSFTRSTVDTMAQKTQAV

## QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized human C5AR1 at 10 µg/mL can bind Anti-C5AR1 recombinant antibody, the EC 50 is 1.239-3.760 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	PBS, pH 7.4, 6% trehalose

## 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 &amp; Storage:

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

Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a. The ligand interacts with at least two sites on the receptor: a high-affinity site on the extracellular N-terminus, and a second site in the transmembrane region which activates downstream signaling events. Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production.

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