



Synonym

C5a-R,CD88,C5ar1,C5a anaphylatoxin chemotactic receptor 1

Source

Human C5AR1 Protein, Flag,His Tag(C51-H52D3) is expressed from human 293 cells (HEK293). It contains AA Ser 30 - Glu 331 (Accession # [P21730-1](#)). Predicted N-terminus: Asp

Molecular Characterization

Flag	C5AR1(Ser 30 - Glu 331) P21730-1	Poly-his
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This protein carries a flag tag at the N-terminus and a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 37.4 kDa.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

This product is not suitable for cell based experiments due to cytotoxicity of DDM.

DDM and CHS are INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove DDM and CHS.

DDM/CHS buffer (DC-11) is sold separately and not included in protein, and please contact us if you need the buffer.

If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.

Supplied as 0.2 μ m filtered solution in 50 mM HEPES, 150 mM NaCl, DDM, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

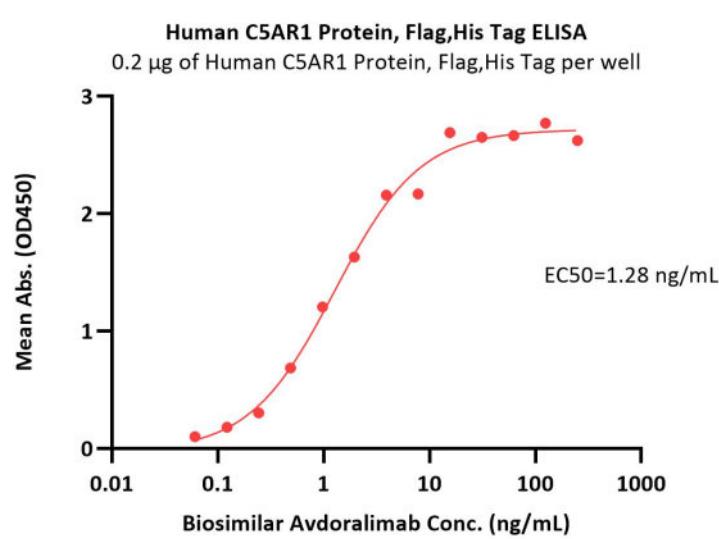
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

*The DDM/CHS buffer (Cat. No. [DC-11](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

Bioactivity-ELISA

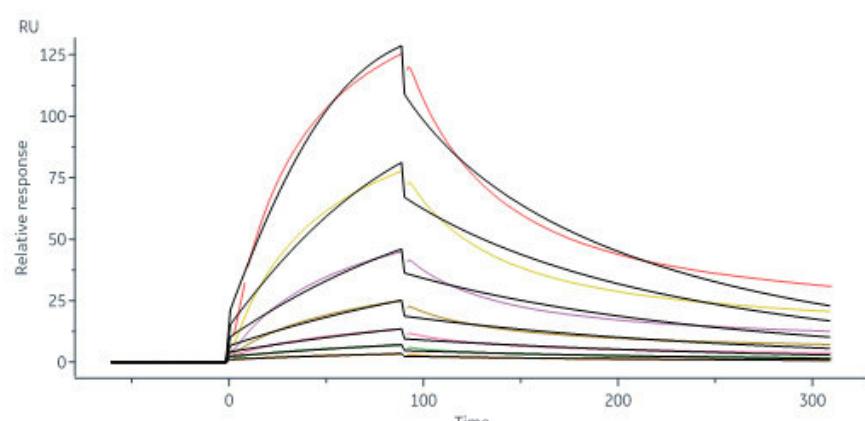


Immobilized Human C5AR1 Protein, Flag,His Tag (Cat. No. C51-H52D3) at 2 μ g/mL (100 μ L/well) can bind Biosimilar Avdoralimab with a linear range of 0.06-4 ng/mL (QC tested).

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**Bioactivity-SPR**

Biosimilar Avdoralimab captured on Protein A Chip can bind Human C5AR1 Protein, Flag,His Tag (Cat. No. C51-H52D3) with an affinity constant of 199 nM as determined in a SPR assay (in presence of DDM and CHS) (Biacore 8K) (Routinely tested).

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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