

# Human C5AR1 Protein, Flag,His Tag (Detergent)

Catalog # C51-H52D3



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

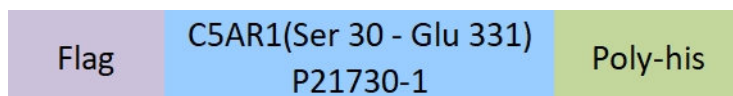
C5a-R,CD88,C5ar1,C5a anaphylatoxin chemotactic receptor 1

## 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



This protein carries flag tag at the N-terminus and polyhistidine tag at the C-terminus.

The protein has a calculated MW of 37.4 kDa.

## Endotoxin

Less than 1.0 EU per  $\mu\text{g}$  by the LAL 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  $\mu\text{m}$  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

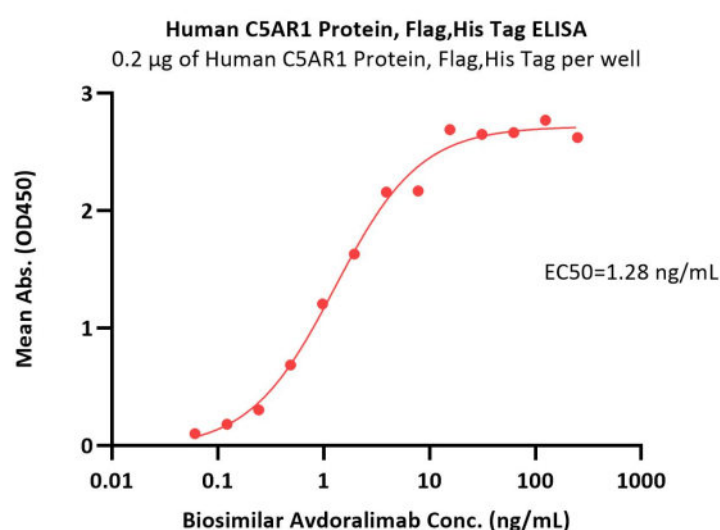
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at  $-70^{\circ}\text{C}$  or lower upon receipt;
- $-70^{\circ}\text{C}$  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  $\mu\text{g}/\text{mL}$  (100  $\mu\text{L}/\text{well}$ ) can bind Biosimilar Avdoralimab with a linear range of 0.06-4 ng/mL (QC tested).

Discounts, Gifts,  
and more!

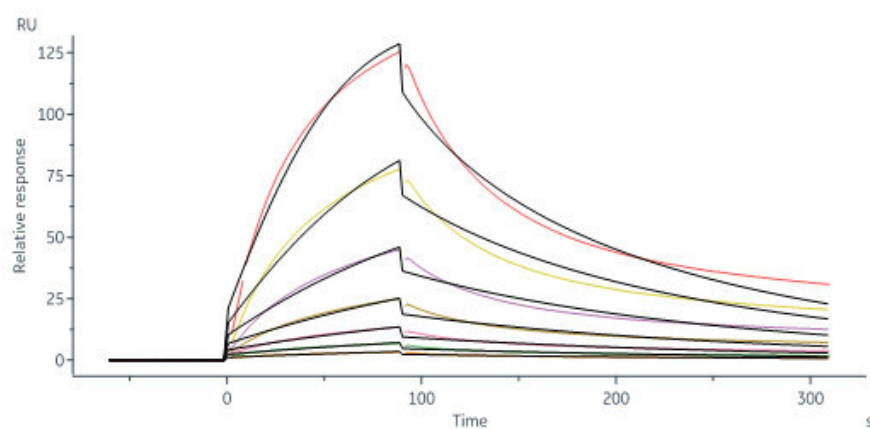


[www.acrobiosystems.com](http://www.acrobiosystems.com)

12/27/2024



## 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.

## Clinical and Translational Updates

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