

# Human CCR5 Protein, Flag,His Tag (Detergent)

Catalog # CC5-H52D1



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

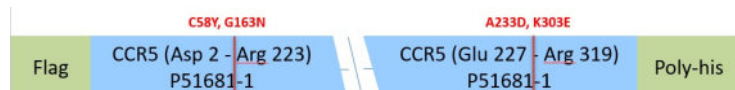
CCR5,CMKBR5,CD195,CC-CKR-5,CHEMR13

## Source

Human CCR5, Flag,His Tag(CC5-H52D1) is expressed from human 293 cells (HEK293). It contains AA Asp 2 - Arg 223 & Glu 227 - Arg 319 (Accession # [P51681-1](#) (C58Y, G163N, A233D, K303E)).

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 46.0 kDa. The protein migrates as 40-43 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

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

## Purity

>85% 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 µm 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.*

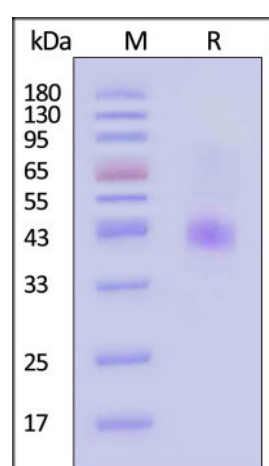
## Storage

*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.

## SDS-PAGE



Human CCR5, Flag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 85% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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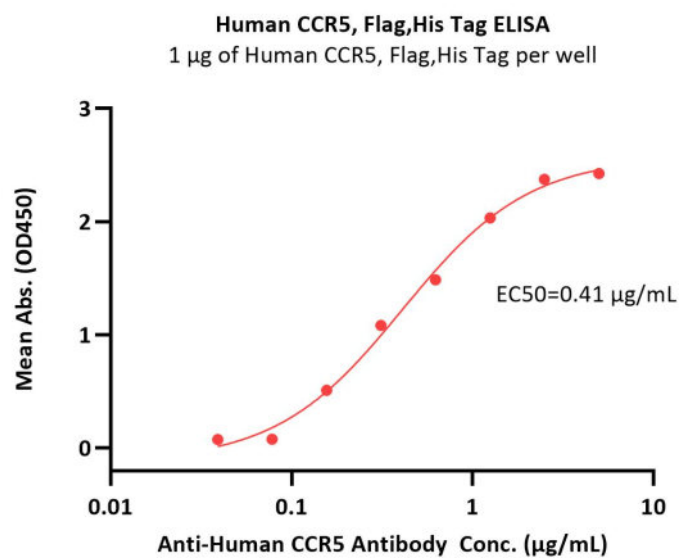
8/7/2024

# Human CCR5 Protein, Flag,His Tag (Detergent)

Catalog # CC5-H52D1

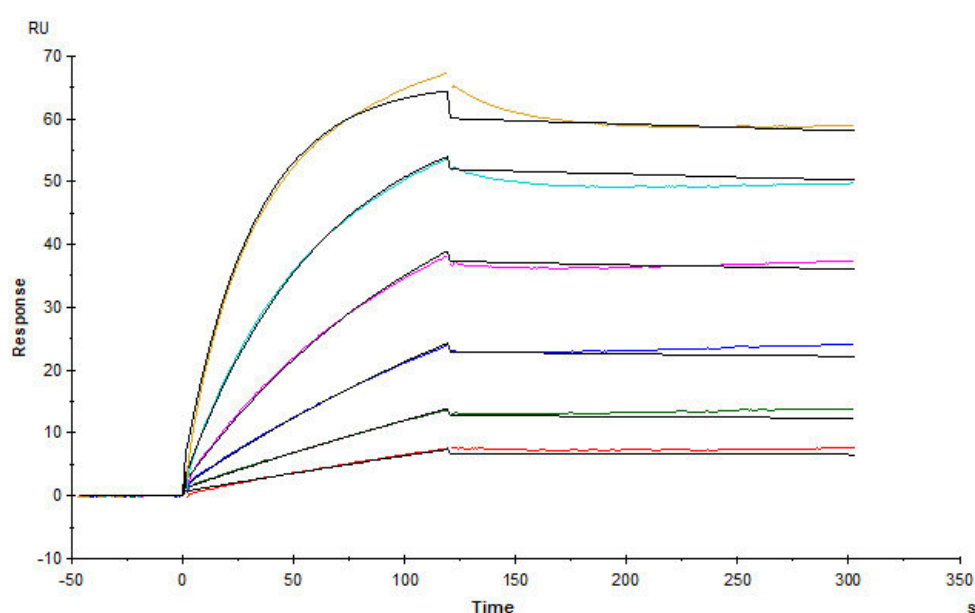


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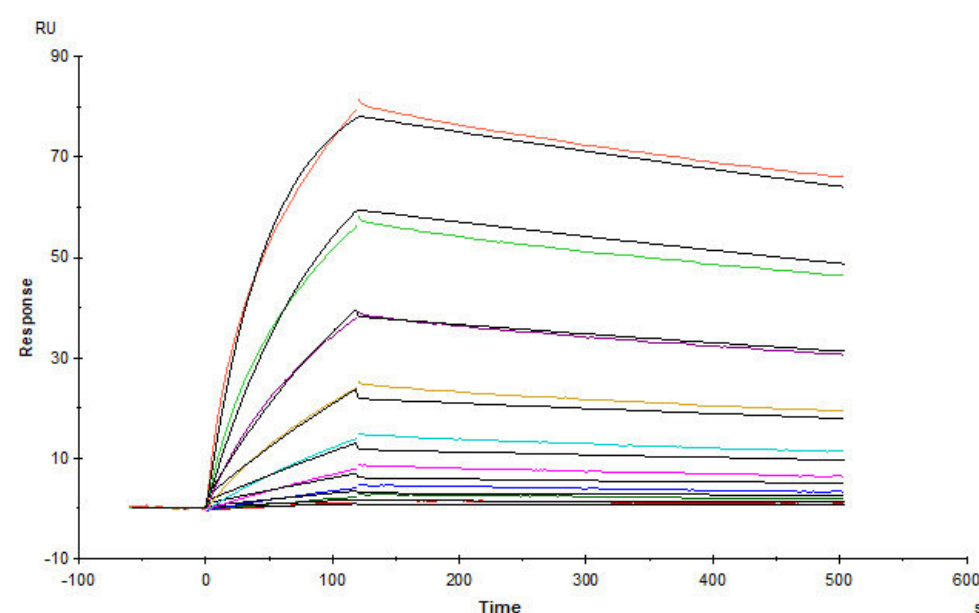


Immobilized Human CCR5, Flag,His Tag (Cat. No. CC5-H52D1) at 10 µg/mL (100 µL/well) can bind Anti-Human CCR5 Antibody with a linear range of 0.02-1.25 µg/mL (QC tested).

## Bioactivity-SPR



Human CCR5, Flag,His Tag (Cat. No. CC5-H52D1) captured on CM5 chip via anti-His antibody can bind Anti-CCR5 antibody (Human IgG1) with an affinity constant of 0.0737 nM as determined in a SPR assay (in presence of DDM and CHS) (Biacore T200) (Routinely tested).



Purified NA/LE Mouse Anti-Human CD195 (Clone: 2D7) (Mouse IgG2a) captured on CM5 chip via anti-mouse antibodies surface can bind Human CCR5, Flag,His Tag (Cat. No. CC5-H52D1) with an affinity constant of 7.51 nM as determined in a SPR assay (in presence of DDM and CHS) (Biacore T200) (Routinely tested).

## Background

Receptor for a number of inflammatory CC-chemokines including CCL3/MIP-1-alpha, CCL4/MIP-1-beta and RANTES and subsequently transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation.<sup>5</sup> Publications (Microbial infection) Acts as a coreceptor (CD4 being the primary receptor) of human immunodeficiency virus-1/HIV-1.

## Clinical and Translational Updates

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