

Biotinylated Human CCR7 Full Length Protein, His,Flag Tag&Avitag™ (Detergent)

Catalog # CC7-H82D4



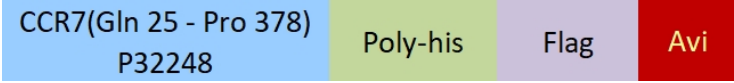
Synonym

BLR2, CC-CKR-7, CCR-7, CD197, CDw197, CMKBR7, EBI1

Source

Biotinylated Human CCR7 Full Length Protein, His,Flag Tag&Avitag(CC7-H82D4) is expressed from human 293 cells (HEK293). It contains AA Gln 25 - Pro 378 (Accession # [P32248](#)).  
Predicted N-terminus: Gln 25

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus and a Flag tag at the C-terminus followed by an Avi tag (Avitag™). The protein has a calculated MW of 61.2 kDa.

Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

Formulation

*This product is not suitable for cell based experiments due to cytotoxicity of detergent.*  
*Detergent buffer is INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove detergent.*  
*Detergent buffer 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, Buffer B, 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.*

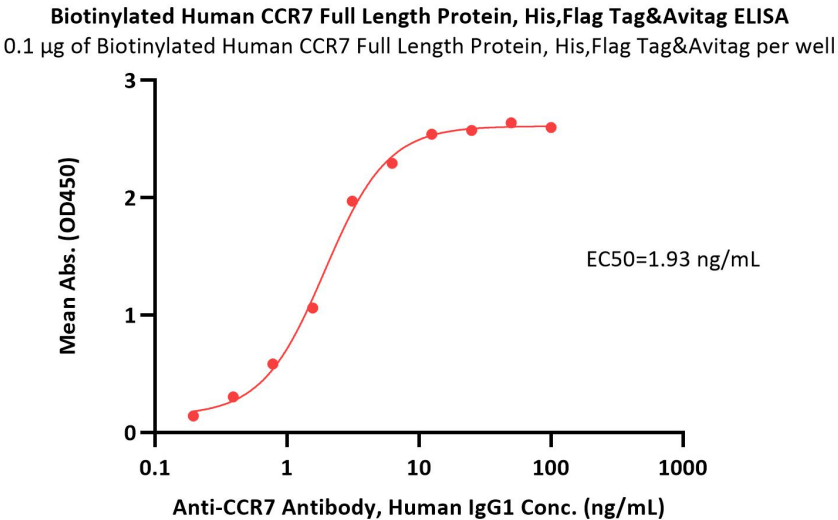
Storage

*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 detergent Buffer B (Cat. No. [LG-13](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

Bioactivity-ELISA



Immobilized Biotinylated Human CCR7 Full Length Protein, His,Flag Tag&Avitag (Cat. No. CC7-H82D4) at 1 µg/mL (100 µL/well) on streptavidin



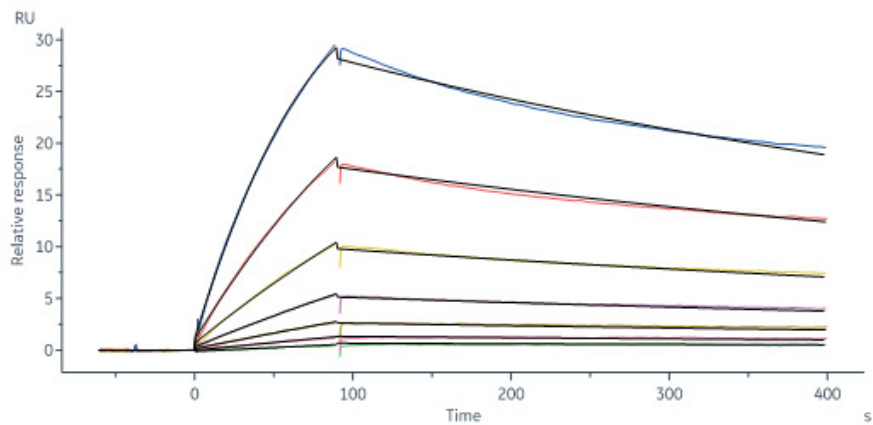
**Biotinylated Human CCR7 Full Length Protein, His,Flag Tag&Avitag™ (Detergent)**

Catalog # CC7-H82D4



(Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-CCR7 Antibody, Human IgG1 with a linear range of 0.2-6 ng/mL (QC tested).

**Bioactivity-SPR**



Anti-CCR7 Antibody, Human IgG1 captured on Protein A Chip can bind Biotinylated Human CCR7 Full Length Protein, His,Flag Tag&Avitag (Cat. No. CC7-H82D4) with an affinity constant of 18.3 nM as determined in a SPR assay (in presence of LMNG and CHS) (Biacore 8K) (Routinely tested).

**Background**

The monoclonal antibody mAb-729 reacts with the human CC chemokine receptor, CCR7. The protein encoded by this gene is a member of the G protein-coupled receptor family. This receptor was identified as a gene induced by the Epstein-Barr virus (EBV), and is thought to be a mediator of EBV effects on B lymphocytes. This receptor is expressed in various lymphoid tissues and activates B and T lymphocytes. It has been shown to control the migration of memory T cells to inflamed tissues, as well as stimulate dendritic cell maturation. The chemokine (C-C motif) ligand 19 (CCL19/ECL) has been reported to be a specific ligand of this receptor. Signals mediated by this receptor regulate T cell homeostasis in lymph nodes, and may also function in the activation and polarization of T cells, and in chronic inflammation pathogenesis.

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