Human CXCR6 / CD186 Full Length Protein, Flag,His Tag (Nanodisc-pro)

Catalog # CX6-H52D4

Application

- Cell based assay (FACS or functional assay)
- Affinity testing (SPR / BLI)
- Screening (ELISA)

Synonyms

BONZO, CD186, CDw186, STRL34, TYMSTR, C-X-C motif chemokine receptor 6

Source

Nanodisc-pro Human CXCR6 Full Length Protein, Flag,His Tag (CX6-H52D4) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Leu 342 (Accession # O00574-1).

Predicted N-terminus: Asp

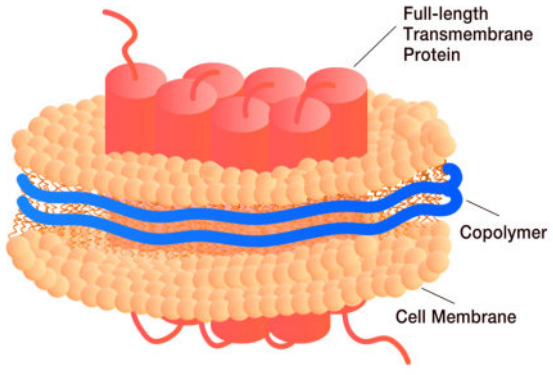
Molecular Characterization

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 83.0 kDa.

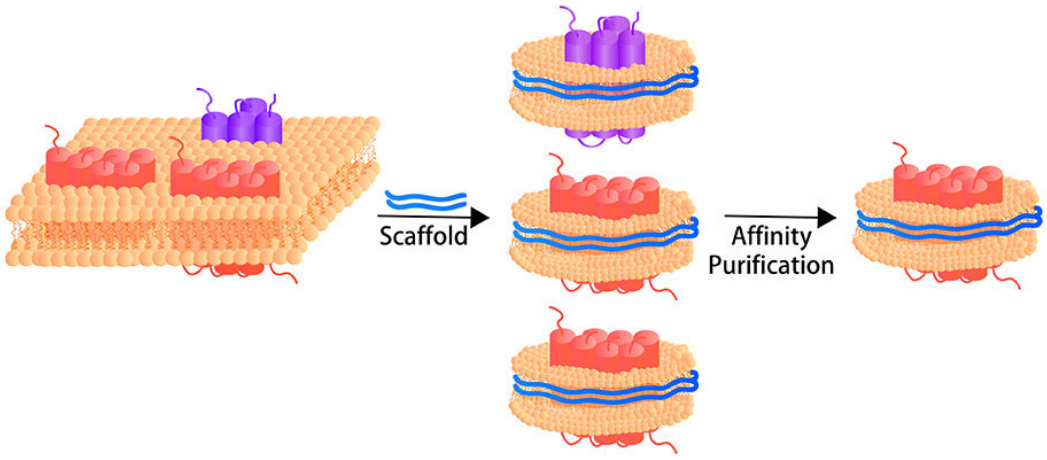
*The isotype control of empty/mock nanodisc (Cat. No. APO-H5143) is sold separately and not included in protein, you can follow the link for product information.

- **Structure**



Nanodisc-pro membrane protein is wrapped by a piece of cell membrane and scaffold, the info of scaffold can be found in above red text "isotope type control...".

- **Synthesis Process**



Nanodisc-pro membrane protein extraction is a gentle, non-disruptive process that **directly isolates full-length transmembrane proteins together with their surrounding native phospholipids from cellular membranes**, without breaking or disturbing the original membrane structure. This preserves the membrane protein's natural conformational landscape and native lipid environment, yielding stable nanodisc that retain cellular phospholipids, with fully preserved biological activity—making them **ideal for cell-based assays such as FACS** and binding assays in antibody discovery and screening (ELISA), etc.

Endotoxin

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

Formulation

Supplied as 0.2 μm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

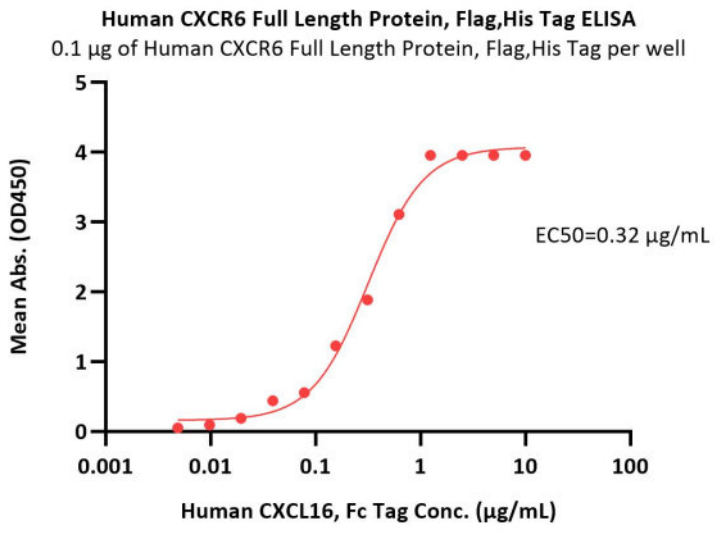
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

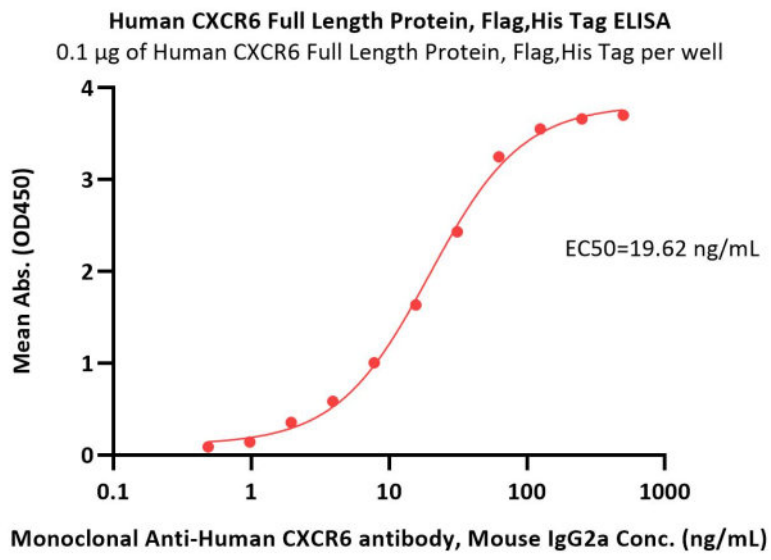
Activity-ELISA

Receptor/Ligand



Immobilized Human CXCR6 Full Length Protein, Flag,His Tag (Cat. No. CX6-H52D4) at 1 μg/mL (100 μL/well) can bind Human CXCL16, Fc Tag (Cat. No. CX6-H5254) with a linear range of 0.005-0.625 μg/mL (QC tested).

Antibody



Immobilized Human CXCR6 Full Length Protein, Flag,His Tag (Cat. No. CX6-H52D4) at 1 μg/mL (100 μL/well) can bind Monoclonal Anti-Human CXCR6 antibody, Mouse IgG2a with a linear range of 0.5-63 ng/mL (Routinely tested).

Background

The protein encoded by this gene is a G protein-coupled receptor with seven transmembrane domains that belongs to the CXC chemokine receptor family. This family also includes CXCR1, CXCR2, CXCR3, CXCR4, CXCR5, and CXCR7. This gene, which maps to the chemokine receptor gene cluster, is expressed in several T lymphocyte subsets and bone marrow stromal cells. The encoded protein and its exclusive ligand, chemokine ligand 16 (CCL16), are part of a signalling pathway that regulates T lymphocyte migration to various peripheral tissues (the liver, spleen red pulp, intestine, lungs, and skin) and promotes cell-cell interaction with dendritic cells and fibroblastic reticular cells. CXCR6/CCL16 also controls the localization of resident memory T lymphocytes to different compartments of the lung and maintains airway resident memory T lymphocytes, which are an important first line of defense against respiratory pathogens. The encoded protein serves as an entry coreceptor used by HIV-1 and SIV to enter target cells, in conjunction with CD4. [provided by RefSeq, Aug 2020]