Human CXCR4 / CD184 Protein, Fc Tag

Catalog # CX4-H5269

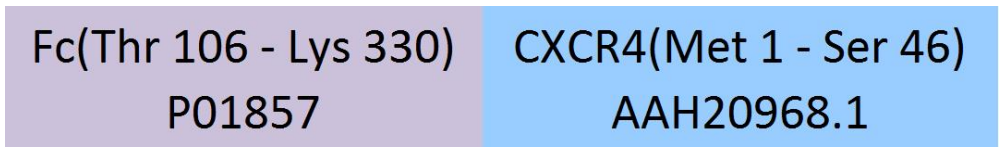
Synonym

CXCR4, CD184, Fusin, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPYY3R, WHIM

Source

Human CXCR4, Fc Tag (CX4-H5269) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ser 46 (Accession # AAH20968.1).

Molecular Characterization



This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 32.3 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

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

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

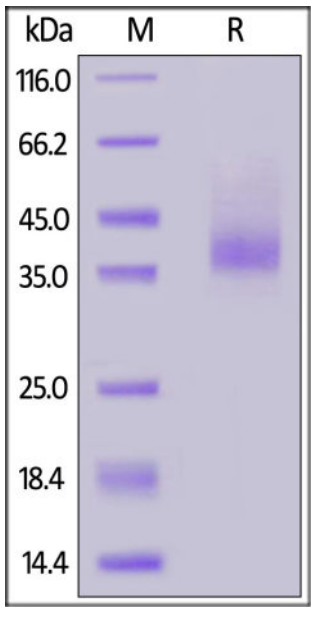
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

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

SDS-PAGE



Human CXCR4, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Background

A chemokine receptor with pleiotropic roles in hematopoietic stem cell homing to bone marrow and cancer metastasis. The CXCL12/CXCR4 axis is a key retention signal for stem cells and malignant plasma cells. Antagonists (plerixafor) are standard-of-care for stem cell mobilization and are being developed for solid tumor therapy.