Data Sheet (Cat.No.TMPY-07151)

TargetMol

CXCR5 Protein-VLP, Human, Recombinant (Flag & His-Strep)

General Information

Synonyms:	MDR15;CD185;BLR1
Protein Construction:	A DNA sequence encoding the Human CXCR5 (P32302) (Met1-Phe372) was expressed, with a Flag tag at the N-terminus, a polyhistidine tag and a strep tag at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P32302
Molecular Weight:	45.84 kDa (predicted)

QC Testing

Biological Activity:	Immobilized CXCR5 Protein-VLP, Human, Recombinant (Flag & His-Strep) (Cat#TMPY-07151) at 5 μg/mL (100 μL/well) can bind Anti- CXCR5 Monoclonal Antibody, Human IgG1, the EC50 is 1-5 ng/mL.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:

Samples are stable for up to twelve months from date of receipt at -70℃. Store it under sterile conditions at -70℃ or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Because of the level of attention it received due to its role as the principal HIV coreceptor, CCR5 has been described as a 'celebrity' chemokine receptor. The wealth of CCR5-related tools that have been developed during the intensive investigation of CCR5 as an HIV drug target can now be turned towards the study of CCR5 as a model chemokine receptor. The enforced expression of CXCR5 onto Treg cells efficiently induces Tfr cell-like properties, which might be a promising cellular therapeutic approach for the treatment of antibody-mediated autoimmune diseases. The Chemokine receptor 5 (CCR5) is implicated in immune cell migration and cytokine release in the CNS, and it was demonstrated to strongly contribute to CNS inflammation and damage in several models of sterile and pathogen-mediated CNS diseases.

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