

## CCR5 Protein-Nanodisc, Human, Recombinant (Flag-Strep &amp; His)

## General Information

Synonyms: CCCR5;CCR-5;CMKBR5;CD195;CKR5;IDDM22;CC-CKR-5;CKR-5

A DNA sequence encoding the Human CCR5 (P51685)(Met1-Arg223) & (Glu227-Arg319) was expressed and linked by a Fusion Protein, with a Flag and a polyhistidine tag at the N-terminus. Within the expressed regions, there are several proprietary thermostabilizing mutations. This protein was prepared using our Nanodisc platform.

Protein Construction: Nanodisc is a versatile tool for studying membrane proteins. Using styrene-maleic acid (SMA) copolymer, membrane proteins can be extracted directly from prokaryotic and eukaryotic expression systems in the absence of detergents to preserve the protein structure and function better. Compared to membrane scaffold proteins (MSPs) nanodiscs, SMA nanodiscs also have the advantage of preserving proteins' nature by maintaining native lipids surrounded without introducing any heterologous proteins, which allows studies of protein structure and functions in a native-like environment.

Species: Human

Expression Host: HEK293 Cells

Accession: P51685

Molecular Weight: 43.96 kDa (predicted); 42.1 kDa (reducing condition)

## QC Testing

Biological Activity: Immobilized CCR5 Protein-Nanodisc, Human, Recombinant (Flag-Strep & His) (Cat#TMPY-07105) at 5 µg/mL (100 µL/well) can bind Leronlimab-Derived Anti-CCR5 Antibody, Human IgG1, the EC50 is 10-32 ng/mL.

Purity: ≥ 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Supplied as sterile 50 mM HEPES, 150 mM NaCl, pH 7.5. 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 &amp; Storage:

Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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