

CCR5 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702233
Synonyms:	C-C chemokine receptor type 5; CHEMR13; HIV-1 fusion coreceptor
Species:	Human
Source:	E. coli Cell-free
Accession:	P51681 (M1-L352)
Gene ID:	1234
Molecular Weight:	43.9 kDa

PROPERTIES

AA Sequence

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MDYQVSSPIY   DINYYTSEPC   QKINVKQIAA   RLLPPLYSLV
FIFGFVGNML   VILILINCKR   LKSMTDIYLL   NLAISDLFFL
LTPPFWAHYA   AAQWDFGNTM   CQLLTGLYFI   GFFSGIFFII
LLTIDRYLAV   VHAVFALKAR   TVTFGVVTSV   ITWVVAVFAS
LPGIIFTRSQ   KEGLHYTCSS   HFPYSQYQFW   KNFQTLKIVI
LGLVLP LLVM   VICYSGILKT   LLRCRNEKKR   HRAVRLIFTI
MIVYFLFWAP   YNIVLLLNFT   QEFFGLNNCS   SSNRLDQAMQ
VTETLGMTHC   CINPIIYAFV   GEKFRNYLLV   FFQKHIAKRF
CKCCSIFQQE   APERASSVYT   RSTGEQEISV   GL
  
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Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CCR5 functions as a receptor for several inflammatory CC-chemokines, including CCL3/MIP-1-alpha, CCL4/MIP-1-beta, and RANTES, leading to the transduction of signals that elevate intracellular calcium ion levels. This receptor is implicated in the

regulation of granulocytic lineage proliferation or differentiation and plays a crucial role in facilitating T-lymphocyte migration to infection sites by acting as a chemotactic receptor. In the context of microbial infection, CCR5 acts as a coreceptor, with CD4 being the primary receptor, for human immunodeficiency virus-1/HIV-1, underscoring its significance in the cellular response to infections.

Caution: Product has not been fully validated for medical applications. For research use only.

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