Proteins



Product Data Sheet

CCR6 Protein, Human (Cell-Free, His, SUMO)

Cat. No.: HY-P702235

Synonyms: C-C chemokine receptor type 6; Chemokine receptor-like 3; CKR-L3; DRY6; G-protein coupled

receptor 29; GPR-CY4; GPRCY4; LARC receptor

Human Species:

E. coli Cell-free Source: P51684 (M1-M374) Accession:

1235 Gene ID:

Molecular Weight: 58.5 kDa

PROPERTIES

AA Seq	uence
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MSGESMNFSD VFDSSEDYFV SVNTSYYSVD SEMLLCSLQE VRQFSRLFVP IAYSLICVFG LLGNILVVIT FAFYKKARSM TDVYLLNMAI ADILFVLTLP FWAVSHATGA WVFSNATCKL LKGIYAINFN CGMLLLTCIS MDRYIAIVQA TKSFRLRSRT LPRSKIICLV VWGLSVIISS STFVFNQKYN TQGSDVCEPK YQTVSEPIRW KLLMLGLELL FGFFIPLMFM IFCYTFIVKT LVQAQNSKRH KAIRVIIAVV LVFLACQIPH NMVLLVTAAN EKLIGYTKTV TEVLAFLHCC LGKMNRSCQS LNPVLYAFIG QKFRNYFLKI LKDLWCVRRK YKSSGFSCAG RYSENISRQT

SETADNDNAS SFTM

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.

Reconsititution

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

The CCR6 Protein acts as a receptor for the C-C type chemokine CCL20, transducing signals by increasing intracellular

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calcium ion levels upon binding to its major ligand. Notably, CCR6 can also function as a receptor for non-chemokine ligands, such as beta-defensins, including DEFB1, DEFB4, and DEFB4A/B. The interaction between CCR6 and DEFB1 is crucial for regulating sperm motility and bactericidal activity. Additionally, CCR6 plays a pivotal role in chemotaxis, being responsible for the migration of dendritic cells, effector/memory T-cells, and B-cells, particularly at skin and mucosal surfaces under various conditions, including inflammation and pathology such as cancer and autoimmune diseases. CCR6-mediated signals are essential for immune responses in the intestinal mucosa, modulating inflammatory responses to tissue insult and trauma. Moreover, CCR6 is indispensable for recruiting pro-inflammatory IL17-producing helper T-cells (Th17) and regulatory T-cells (Treg) to sites of inflammation, influencing thymocyte precursor migration events, B-cell localization in Peyers-patches, and the efficient secondary recall response of memory B-cells. It also positively regulates sperm motility and chemotaxis through its binding to CCL20.

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

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