

Protein-C-C chemokine receptor type 2

Product specification

Acronym: CCR2
Class: Receptor
Origin: Human
Molecular weight: 42 kDa
Application:

Purity: >40%
Activity: To be tested
Length: 360
TMD: 7
Biological function:

Product description

CCR2 is a member of the beta chemokine receptor family. This gene encodes two isoforms of a receptor for monocyte chemoattractant protein-1, a chemokine which specifically mediates monocyte chemotaxis. Monocyte chemoattractant protein-1 is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis as well as in the inflammatory response against tumors. The receptors encoded by this gene mediate agonist-dependent calcium mobilization and inhibition of adenylyl cyclase.

Protein Source: hCCR2b wild type protein (Human CCR2b).

Fig.1: AA sequence of C-C chemokine receptor type 2 protein

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      10      20      30      40      50
MLSTSRSRFI RNTNESGEEV ITFFDYDYGA PCHKFDVKOI GAOLLPPLYS
      60      70      80      90     100
LVFIFGFVGN MLVVLILINC KKLKCLTDIY LLNLAISDLL FLITLPLWAH
     110     120     130     140     150
SAANEWVFGN AMCKLFTGLY HIGYFGGIFF IILLTIDRYL AIVHAVFALK
     160     170     180     190     200
ARTVTFGVVT SVITWLVAVF ASVPGIIFTK CQKEDSVYVC GPYFPRGWNN
     210     220     230     240     250
FHTIMRNILG LVLPLLIMVI CYSGILKILL RCRNEKKRHR AVRVIIFTIMI
     260     270     280     290     300
VYFLFWTPYN IVILLNTFQE FFGLSNCEST SOLDQATQVT ETLGMTHCCI
     310     320     330     340     350
NPIIYAFVGE KFRRYLSVFF RKHITKRECK QCPVFYRETV DGVISINTPS
     360
TGEQEVSAGL

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Affinity Tag: Histidine tag fused to the N-terminal end of the protein.

Production conditions: hCCR2b is expressed in a cell-free expression system in the presence of lipid vesicles. 100 µg can be produced and qualified in about 1 week.

Quality analysis

Purity: Typically > 40% as determined by SDS-Page and Coomassie Blue staining.

Purification procedure: As standard, hCCR2b proteoliposomes are purified on a sucrose gradient. Further purification steps can be added if required.

Fig.2: Upcoming Fig.2: Western blot of proteoliposome hCCR2b after purification (kDa)



Formulation

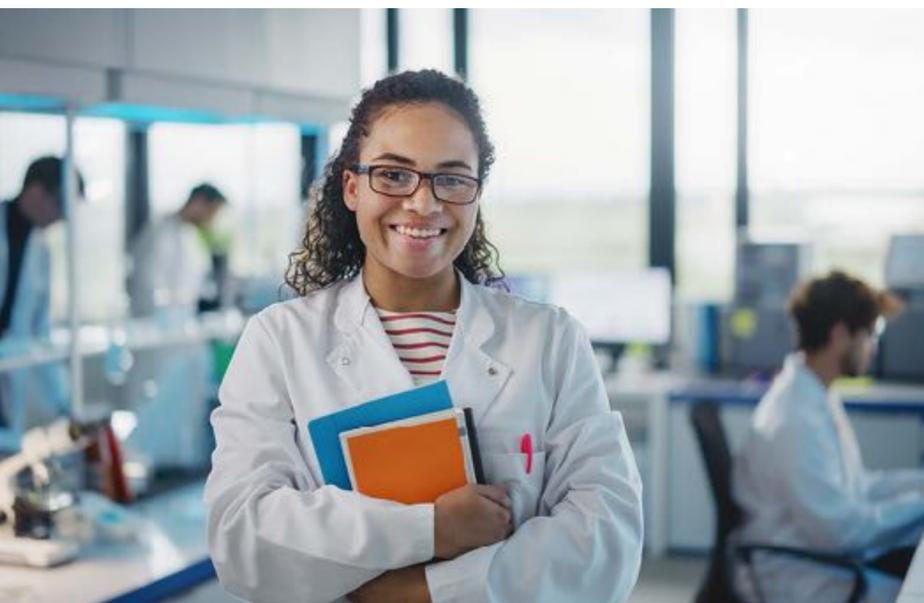
Buffer: Available in Tris 50mM, pH 7.5. Other buffers or customized formulation can be provided upon request.

Customized Hydrophobic matrix: Customized formulation with specific lipids like PEGylated or biotinylated lipids can be used upon request, as well as targeting molecules.

Storage/Stability: Store at +4°C for up to one week or several months at -80°C. Aliquot for storage. Do not freeze-thaw after aliquoting.

Use restrictions: For life science research use only.

Available sizes: 10µg, 20µg, 100 µg, 200 µg.



Need a specific amount, a quote or any additional information?
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