

C-C Chemokine Receptor type 2 isoform A

Product specification

Acronym: CCR2a

Class: GPCR class A

Origin: Human

Molecular weight: 41 kDa

Application: Screening & Display Technologies, Antibody development, Structural Biology

Purity: >50%

Activity: To be tested

Length: Full Length

TMD: 7

Biological function: Monocyte chemotaxis

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: hCCR2a wild type protein (Human CCR2a)

Fig.1: AA sequence of hCCR2a protein

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      10      20      30      40      50
MEDNNMLPQF IHGILSTSHS LFTRSIQELD EGATTPYDYO DGEPCHKTSV
      60      70      80      90     100
KQIGAWILPP LYSLVFIFGF VGNMLVIIIL IGCKKLSMT DIYLLNLAIS
     110     120     130     140     150
DIIFITIPF WAHYAANFWV FGNTMCKVFT GIYHTGYFEGG TFFTTIITTD
     150     170     180     190     200
RYLAIVHAVF ALKARIVIFG VIISVVIWV AVFASLPGLL FIKSKQDHH
     210     220     230     240     250
YTCGPYFTQL WKNFQTIMRN ILSLILPLL MVICYSGLH TLFRCRNEKK
     250     270     280     290     300
RHR/VRLIFA INIVYFLFWT PVNIVLFLT FQESLGMSNC VIDKHLQAM
     310     320     330     340     350
QVTETLGMTH CCINPVIYAF VGEKFRRLYS IFFRKHIAKR LCKQCPVFYR
     350     370
EIAURVSSIF IPSIGEQEVV VGL
  
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Affinity Tag: Histidine tag fused to the N-terminal end of the protein.

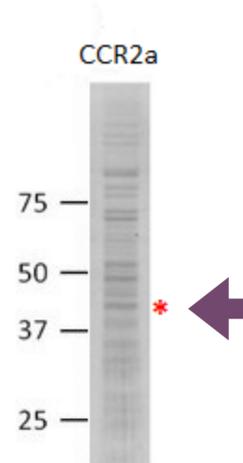
Production conditions: hCCR2a is expressed in a cell-free expression system in the presence of lipid vesicles. 100 Åµg can be produced and qualified in about 1 week.

Quality analysis

Purity: Typically > 50% as determined by SDS-Page and Coomassie Blue staining.

Purification procedure: As standard, hCCR2a proteoliposomes are purified on a sucrose gradient. Further purification steps can be added if required.

Fig.2: Proteoliposome hCCR2a after purification (Western blot identification).



Formulation

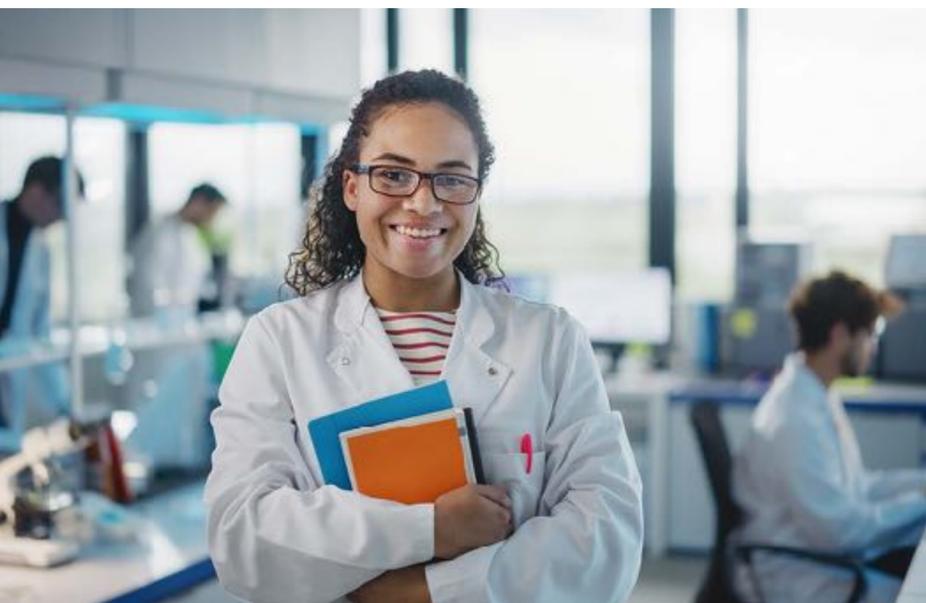
Buffer: Available in Tris 50mM, pH 7.5. Other buffers or customized formulation can be provided upon request..

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: 10 µg, 20 µg, 100 µg, 200 µg, 500 µg, bulk



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