

Product Information

MemDX™ Membrane Protein Human CCR5 (C-C motif chemokine receptor 5) Full Length

Cat. No.: **MPC0052K**

This product is for research use only and is not intended for diagnostic use.

This product is a 40.5 kDa Human CCR5 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CCR5

Protein Length

Full length

Protein Class

GPCR

Molecular Weight

40.5 kDa

TMD

7

Sequence

MDYQVSSPIYDINYYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNML
VILILINCKRLKSMTDIYLLNLAISDLFFLLTVPFWAHYAAAQWDFGNTM
CQLLTGLYFIGFFSGIFFIILLTIDRYLAVVHAVFALKARTVTFGVVTSV
ITWVVAVFASLPGIIFTRSQKEGLHYTCSSHPYSQYQFWKNFQTLKIVI
LGLVLP LLVMVICYSGILKTLLRCRNEKKRHRVRLIFTIMIVYFLFWAP
YNIVLLNNTFQEFG LNNCSSNRDLQAMQVTETLGMTHCCINPIYAFV
GEKFRNYLLVFFQKHIKRFCCKCSIFQQEAPERASSVYTRSTGEQEISV
GL

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

CCR5

Full Name

C-C motif chemokine receptor 5

Introduction

This gene encodes a member of the beta chemokine receptor family, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors. This protein is expressed by T cells and macrophages, and is known to be an important co-receptor for macrophage-tropic virus, including HIV, to enter host cells. Defective alleles of this gene have been associated with the HIV infection resistance. The ligands of this receptor include monocyte chemoattractant protein 2 (MCP-2), macrophage inflammatory protein 1 alpha (MIP-1 alpha), macrophage inflammatory protein 1 beta (MIP-1 beta) and regulated on activation normal T expressed and secreted protein (RANTES). Expression of this gene was also detected in a promyeloblastic cell line, suggesting that this protein may play a role in granulocyte lineage proliferation and differentiation. This gene is located at the chemokine receptor gene cluster region. An allelic polymorphism in this gene results in both functional and non-functional alleles; the reference genome represents the functional allele. Two transcript variants encoding the same protein have been found for this gene.

Alternative Names

CKR5; CCR-5; CD195; CKR-5; CCCKR5; CMKBR5; IDDM22; CC-CKR-5; C-C chemokine receptor type 5; C-C motif chemokine receptor 5 A159A; HIV-1 fusion coreceptor; chemokine (C-C motif) receptor 5; chemokine receptor CCR5; chemokine receptor CCR5 Delta32; chemr13; CCR5; C-C motif chemokine receptor 5

Gene ID

[1234](#)

UniProt ID

[P51681](#)