

Product Information

MemDX™ Membrane Protein Human CXCR4 (C-X-C motif chemokine receptor 4)

Cat. No.: **MP0010F**

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

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

CXCR4

Protein Length

Full Length

Protein Class

Receptor

Molecular Weight

43 kDa

TMD

7

Sequence

MEGISIYTS DNYTEEMGSGDYDSMKEPCFREENANFNKIFLPTIYSIIFLTGIVGNGLVI
LVMGYQKKLRSM TDKYRLHLSVADLLFVITLPFWAVDAVANWYFGNFLCKAVHVIYTVNL
YSSVLILAFISLD RYLAIVHATNSQRPRKLLAEKVYVGVWIPALLLTIPDFIFANVSEA
DDRYICDRFY PNDLWVVVFQFQHIMVGLILPGIVILSCYCIISKLSHSGHKHQRKALKT
TVILILAFFACWLPYYIGISIDSFILLEIKQGCEFENTVHKWISITEALAFFHCCLNPI
LYAFLGAKFKTSAQH ALTSVSRGSSSLKILSKGKRGGHSSVSTESESSSFHSS

Product Description

Activity

Yes

Application

Screening & display technologies

Expression Systems

Cell-free expression system

Tag

Histidine tag fused to the N-terminal end of the protein

Protein Format

Proteoliposome

Form

Powder

Purification

Sucrose gradient

Purity

>70% by SDS-Page and Coomassie Blue staining

Buffer

Tris 50mM, pH 7.5

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

CXCR4

Full Name

C-X-C motif chemokine receptor 4

Introduction

This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Alternative Names

FB22, HM89, LAP3, LCR1, NPYR, WHIM, CD184, LAP-3, LESTR, NPY3R, NPYRL, WHIMS, HSY3RR, NPYY3R, D2S201E

Gene ID

[7852](#)

UniProt ID

[P61073](#)