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Datasheet for ABIN7491625 CXCR4 Protein

Overview

Quantity:	100 µg
Target:	CXCR4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic

Product Details

Purpose:	Human CXCR4 full length protein-synthetic nanodisc
Characteristics:	Full Length Transmembrane Proteins (synthetic Nanodisc)

Target Details

Target:	CXCR4
Alternative Name:	CXCR4 (CXCR4 Products)
Background:	<p>CD184, D2S201E, FB22, HM89, HSY3RR, LAP-3, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPYY3R, WHIM, WHIMS</p> <p>Description: 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. [provided by RefSeq, Jul 2008]</p>

Target Details

Molecular Weight:	The human full length CXCR4 protein has a MW of 39.6 kDa
UniProt:	P61073
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events

Application Details

Application Notes:	<ul style="list-style-type: none">• Applications for VLPs:• ELISA• SPR affinity analysis• Phage display screening• Immunization• Cell based assays• CAR-T cell screening• Protein crystal structure analysis
Comment:	Synthetic Nanodisc can be prepared directly from the cells. The polymers used during this process have a dual function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can then be purified.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Supplied in nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0)
Storage:	-20 °C, -80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months