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Datasheet for ABIN7491629 CXCR6 Protein

2 Images



Overview

| Quantity: | 100 µg |
|---------------|--------------------|
| Target: | CXCR6 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Synthetic Nanodisc |

Product Details

| Purpose: | Human CXCR6 full length protein-synthetic nanodisc |
|------------------|---|
| Characteristics: | Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our 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. |

Target Details

| Target: | CXCR6 |
|-------------------|--|
| Alternative Name: | CXCR6 (CXCR6 Products) |
| Background: | A G protein-coupled receptor with seven transmembrane domains that belongs to the CXC |
| | chemokine receptor family. This family also includes CXCR1, CXCR2, CXCR3, CXCR4, CXCR5, |
| | and CXCR7. This gene, which maps to the chemokine receptor gene cluster, is expressed in |
| | several T lymphocyte subsets and bone marrow stromal cells. The encoded protein and its |
| | exclusive ligand, chemokine ligand 16 (CCL16), are part of a signalling pathway that regulates T |

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Target Details

| | lymphocyte migration to various peripheral tissues (the liver, spleen red pulp, intestine, lungs, |
|-------------------|---|
| | and skin) and promotes cell-cell interaction with dendritic cells and fibroblastic reticular cells. |
| | CXCR6/CCL16 also controls the localization of resident memory T lymphocytes to different |
| | compartments of the lung and maintains airway resident memory T lymphocytes, which are an |
| | important first line of defense against respiratory pathogens. The encoded protein serves as an |
| | entry coreceptor used by HIV-1 and SIV to enter target cells, in conjunction with CD4. |
| Molecular Weight: | The human full length CXCR6 protein has a MW of 39.3 kDa |
| UniProt: | 000574 |

Application Details

| Comment: | Advantages of Synthetic Nanodiscs: |
|---------------|--|
| | Highly purified membrane proteins |
| | High solubility in aqueous solutions |
| | High stability |
| | Proteins are in a native membrane environment and remain biologically active |
| | No detergent and can be used for cell-based assays |
| | No MSP backbone proteins |
| | Limitations of Synthetic Nanodiscs: |
| | Intolerant to acids and high concentrations of divalent metal ions |
| Restrictions: | For Research Use only |

Handling

| Format: | Lyophilized |
|------------------|---|
| Buffer: | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5 % - 8 % trehalose is added as protectants before lyophilization. |
| 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 |



ELISA assay to evaluate CXCR6-Nanodisc 0.2µg Human CXCR6-Nanodisc per well



SDS-PAGE

Image 1. Human C-Nanodisc, Flag Tag on SDS-PAGE

ELISA

Image 2. Elisa plates were pre-coated with Flag Tag C-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with C-Nanodisc is 2.190 ng/mL.

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