

## PRODUCT INFORMATION

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tag</b>                              | C-Flag Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Target</b>                           | S1PR5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                         | EDG8, Edg-8, S1P5, SPPR-1, SPPR-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>                      | Human S1PR5 full length protein-synthetic nanodisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Delivery</b>                         | 6~8weeks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Uniprot ID</b>                       | Q9H228                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Expression Host</b>                  | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Families</b>                 | GPCR, Transmembrane, Druggable Genome,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Pathways</b>                 | S1P Signaling,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Weight</b>                 | The human full length S1PR5 protein has a MW of 41.8kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formulation &amp; Reconstitution</b> | 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. Please see Certificate of Analysis for specific instructions of reconstitution.                                                                                                                                                                                                                                                                                                   |
| <b>Storage&amp;Shipping</b>             | 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.                                                                                                                                                                                                                                                                                                |
| <b>Background</b>                       | The lysosphingolipid sphingosine 1-phosphate (S1P) regulates cell proliferation, apoptosis, motility, and neurite retraction. Its actions may be both intracellular as a second messenger and extracellular as a receptor ligand. S1P and the structurally related lysolipid mediator lysophosphatidic acid (LPA) signal cells through a set of G protein-coupled receptors known as EDG receptors. Some EDG receptors (e.g., EDG1; MIM 601974) are S1P receptors; others (e.g., EDG2; MIM 602282) are LPA receptors. [supplied by OMIM, Mar 2008] |
| <b>Usage</b>                            | Research use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Conjugate</b>                        | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

