

# Recombinant Human S1PR1 protein

**Cat. No.** S1PR1-28462TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human S1PR1(1 a.a. - 288 a.a.) was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 1-288 a.a.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | The protein encoded by this gene is structurally similar to G protein-coupled receptors and is highly expressed in endothelial cells. It binds the ligand sphingosine-1-phosphate with high affinity and high specificity, and suggested to be involved in the processes that regulate the differentiation of endothelial cells. Activation of this receptor induces cell-cell adhesion.                               |
| <b>Form</b>             | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 42.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MGPTSVPLVKAHRSSVSDYVNYDIIVRHNYTGKLNISADKENSIKLTSVVFILICCFIIL<br>ENIFVLLTIWKTKK FHRPMYYFIGNLALSDDLAVAYTANLLLSGATTYKLTPAQWFL<br>REGSMFVALSASVFSLLAIAIERYITMLKMK LHNGSNNFRLFLLISACWWISLILGGLPI<br>MGWNCISALSSCSTVLPLYHKHYILFCTTVFTLLLLSIVILYCRIY SLVRTRSRLTFRK<br>NISKASRSSEKSLALLKTVIIVLSVFIACWAPLFILLLLDVGCKVKTCILFRAEYFLVLA<br>VLNSGTNPPIYTLTNKEMRRAFIRIMSCCKCPSGDSAGKFKRPIIAGMEFSRSKSDNS<br>SHPQKDEGDNPETIMSS GNVNSSS |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Antibody Production; Functional Study; Compound Screening                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein. Heating may cause protein aggregation. Please do not heat this product before electrophoresis.                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>        | S1PR1 sphingosine-1-phosphate receptor 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>  | S1PR1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | S1PR1; sphingosine-1-phosphate receptor 1; EDG1, endothelial differentiation, sphingolipid G protein coupled receptor, 1; sphingosine 1-phosphate receptor 1; CD363; D1S3362; edg 1; S1P receptor 1; S1P receptor Edg-1; sphingosine 1-phosphate receptor EDG1; sphingosine 1-phosphate receptor Edg-1; endothelial differentiation G-protein coupled receptor 1; endothelial differentiation, sphingolipid G-protein-coupled receptor, 1; EDG1; S1P1; ECGF1; EDG-1; CHEDG1; FLJ58121; |
| <b>Gene ID</b>          | 1901                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_001400                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>   | NP_001391                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>              | 601974                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>       | P21453                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Chromosome</b>       | 1p21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| Location |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pathway  | Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Fc-epsilon receptor I signaling in mast cells, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Other, organism-specific biosystem; Lysosphingolipid and LPA receptors, organism-specific biosystem; |
| Function | G-protein coupled receptor activity; receptor activity; signal transducer activity; sphingolipid binding; sphingosine-1-phosphate receptor activity;                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA