

MULTISCREENTM MEMBRANE PREPARATION MOUSE RECOMBINANT S1P4 RECEPTOR

PRODUCT INFORMATION

Catalog Number: CGm1052-1-290 Lot Number: MCGm1052-1-290-

040519

Quantity: 1 vial (2 x 10⁶) frozen cells **Freeze Medium**: Cellbanker 2 (Amsbio

11891)

Host cell: CHO-K1 Gαqi5

Transfection: Expression vector containing full-length mouse S1P2 cDNA (Genbank Accession Number: NM_010333.4) with FLAG tag sequence at N-terminus

Recommended Storage: Liquid

nitrogen upon receiving

Propagation Medium: DMEM/F12, 10% FBS, 10 μ g/mL puromycin

Stability: In Progress

Data sheet

Background: S1P4 receptor or Endothelial Differentiation Gene-6 (EDG-6) is receptor for sphingosine-1-phosphate (S1P). S1P is a bioactive lipid produced from the metabolism of sphingomyelin. It is an important constituent of serum and regulates cell growth, survival, migration, differentiation and gene expression. Unlike other members of S1P receptor, which are widely expressed, S1P4 exhibits lymphoid tissue-specific expression. EDG-6 has been implicated in regulation of cell shape and motility.

Application: Functional assay

Figure 1

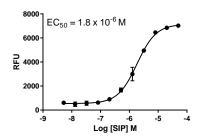


Figure 2

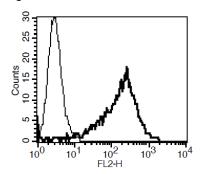


Figure 1. Dose-dependent stimulation of calcium flux upon treatment with ligand, measured with Multiscreen™ Calcium 1.0 No Wash Assay Kit (Multispan MSCA01). Figure 2. Receptor expression on cell surface measured by flow cytometry (FACS) using an anti-FLAG antibody. Thin line: parental cells; thick line: receptor-expressing cells.

References:

Clemens *et al.* (2004) Synthesis of benzimidazole based analogues of sphingosine1-phosphate: discovery of potent, subtype-selective S1P4 receptor agonists. *Bioorg Med Chem Lett* 14:4903-4906.

Takuwa *et al.* (2001) Subtype-specific, differential activities of the EDG family receptors for sphingosine-1-phosphate, a novel lysophospholipid mediator. *Mol Cell Endocrinol* 177:3-11.

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