Sphingosine-1-Phosphate Receptor 3 (S1PR3) Cell Line | S1PR3 cell line

Sphingosine-1-Phosphate Receptor 3 (S1PR3) ACTOne Stable Cell Line, HEK293

CATALOG #	HOST
AAA62096	**HEK-293 CNG cells**

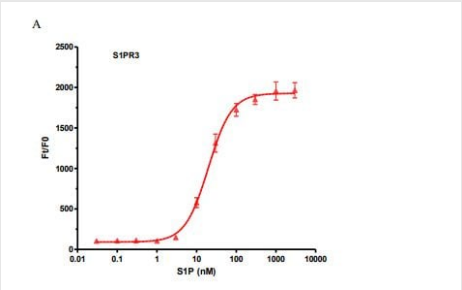
PRODUCT SYNONYMS

Sphingosine-1-Phosphate Receptor 3 (S1PR3); Sphingosine-1-Phosphate Receptor 3 (S1PR3) ACTOne Stable Cell Line; HEK293; Sphingosine-1-Phosphate Receptor 3 (S1PR3) ACTOneTM Stable Cell Line; S1PR3 cell line

PRODUCT SPECIFICATIONS

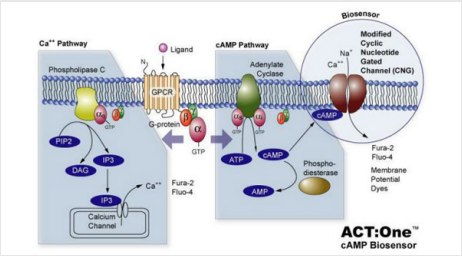
Host	HEK-293 CNG cells
Detection	FlexStation or Microplate reader
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Shipping Note	Product available only in the USA.
Preparation and Storage	Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130 degree C, preferably in liquid nitrogen vapor, until ready for use.

IMAGES



Application Data

Figure 1. Response of ACTOneTM S1PR3 cell lineACTOneTM S1PR3 receptor cells and parental cells were plated overnight in 20 ul culturemedium on a 384 well Bi degree Coat plate. The next day, cells were dye-loaded with 20 ul/well of 1x Dye-loadingsolution (EliteTM Non-Wash Calcium Dye). After 1 hour of incubation at 37 degree C, the plate wasread on Hmamastu FDSS 7000 with online addition of the ligand. Fluorescent intensity was used to plot thefigure.A. Dose response curve of S1P in ACTOneTM S1PR3 cell line. EC50 = 20 nM*Parental cells do not respond to S1P (data not shown



Application Data

ADDITIONAL INFORMATION

Related Product Information for S1PR3 cell line	Introduction: Introduction: S1PR3 is a G-protein-coupled receptor which binds the bioactive signaling molecule sphingosine 1-phosphate (S1P).S1PR3 belongs to a sphingosine-1-phosphate receptor subfamily comprising five members (S1PR3-5). They areexpressed in a wide variety of tissues, with each subtype exhibiting a different cell specificity, although they are found attheir highest density on leuk degree Cytes. S1PR3 has been identified as a functional receptor for sphingosine 1-phosphate andlikely contributes to the regulation of angiogenesis and vascular endothelial cell function. Description: Human S1PR3 ACTOneTM is a HEK-293 CNG cell line that expresses recombinant human S1PR3. HEK-293 CNG cellsexpress a modified CNG (Cyclic Nucleotide Gated) channel that opens in response to elevated intracellular cAMP levelsand consequently result in ion flux (often detectable by calcium-responsive dye) and cell membranedepolarization which can be easily measured with fluorescent Membrane Potential Dye. The assayallows both end-point and kinetic measurement of intracellular cAMP changes with a FDSS, FLIPR, or a fluorescencemicroplate reader. This cell line is a HEK-293-CNG cell line that expresses a recombinant human S1PR3. HEK-293-CNG cells express a modified CNG (Cyclic Nucleotide Gated) channel that opens in response to elevated intracellular cAMP levels and consequently result in ion flux and cell membrane depolarization.
Product Categories/Family for S1PR3 cell line	Membrane Receptor Stable Cell Lines; ACTOne GPCR Stable Cell Lines; Sphingosine-1-Phosphate Receptor 3 (S1PR3) ACTOne Stable Cell Line

NCBI AND UNIPROT INFORMATION

NCBI GI #	38788193
NCBI GeneID	1903
NCBI Accession #	NP_005217.2
NCBI GenBank Nucleotide #	NM_005226.3
UniProt Accession #	Q99500; Q5SQD8; Q7Z5I2
Molecular Weight	42,250 Da
NCBI Official Full Name	sphingosine 1-phosphate receptor 3
NCBI Official Synonym Full Names	sphingosine-1-phosphate receptor 3
NCBI Official Symbol	S1PR3
NCBI Official Synonym Symbols	EDG3; LPB3; S1P3; EDG-3
NCBI Protein Information	sphingosine 1-phosphate receptor 3; S1P receptor 3; S1P receptor EDG3; S1P receptor Edg-3; sphingosine 1-phosphate receptor Edg-3; endothelial differentiation G-protein coupled receptor 3; G protein-coupled receptor, endothelial differentiation gene-3; en
UniProt Protein Name	Sphingosine 1-phosphate receptor 3
UniProt Gene Name	**S1PR3**
UniProt Synonym Gene Names	EDG3; S1P receptor 3; S1P3
UniProt Entry Name	S1PR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://www.aaabiotech.com/cell-line/sphingosine-1-phosphate-receptor-3-s1pr3/62096