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S1PR1 Protein (AA 2-382) (rho-1D4 tag)





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Quantity:	1 mg
Target:	S1PR1
Protein Characteristics:	AA 2-382
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This S1PR1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequ	ience:
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VSTSIPEVKA LRSSVSDYGN YDIIVRHYNY TGKLNIGAEK DHGIKLTSVV FILICCFIIL ENIFVLLTIW KTKKFHRPMY YFIGNLALSD LLAGVAYTAN LLLSGATTYK LTPAQWFLRE GSMFVALSAS VFSLLAIAIE RYITMLKMKL HNGSNSSRSF LLISACWVIS LILGGLPIMG WNCISSLSSC STVLPLYHKH YILFCTTVFT LLLLSIVILY CRIYSLVRTR SRRLTFRKNI SKASRSSEKS LALLKTVIIV LSVFIACWAP LFILLLLDVG CKAKTCDILY KAEYFLVLAV LNSGTNPIIY TLTNKEMRRA FIRIVSCCKC PNGDSAGKFK RPIIPGMEFS RSKSDNSSHP QKDDGDNPET IMSSGNVNSS S Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse S1pr1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 μm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	S1PR1

Target Details

Alternative Name:	S1pr1 (S1PR1 Products)
Background:	G-protein coupled receptor for the bioactive lysosphingolipid sphingosine 1-phosphate (S1P)
	that seems to be coupled to the G(i) subclass of heteromeric G proteins. Signaling leads to the
	activation of RAC1, SRC, PTK2/FAK1 and MAP kinases. Plays an important role in cell
	migration, probably via its role in the reorganization of the actin cytoskeleton and the formation
	of lamellipodia in response to stimuli that increase the activity of the sphingosine kinase
	SPHK1. Required for normal chemotaxis toward sphingosine 1-phosphate. Required for normal
	embryonic heart development and normal cardiac morphogenesis. Plays an important role in
	the regulation of sprouting angiogenesis and vascular maturation. Inhibits sprouting
	angiogenesis to prevent excessive sprouting during blood vessel development. Required for
	normal egress of mature T-cells from the thymus into the blood stream and into peripheral
	lymphoid organs. Plays a role in the migration of osteoclast precursor cells, the regulation of
	bone mineralization and bone homeostasis. Plays a role in responses to oxidized 1-palmitoyl-2
	arachidonoyl-sn-glycero-3-phosphocholine by pulmonary endothelial cells and in the protection
	against ventilator-induced lung injury. {ECO:0000269 PubMed:11032855,
	ECO:0000269 PubMed:11230698, ECO:0000269 PubMed:11726541,
	ECO:0000269 PubMed:12869509, ECO:0000269 PubMed:14732704,
	ECO:0000269 PubMed:14737169, ECO:0000269 PubMed:19204730,
	ECO:0000269 PubMed:19286607, ECO:0000269 PubMed:21668976,
	ECO:0000269 PubMed:22951644}.
Molecular Weight:	43.7 kDa Including tag.
UniProt:	008530
Pathways:	Signaling Events mediated by VEGFR1 and VEGFR2
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurante
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

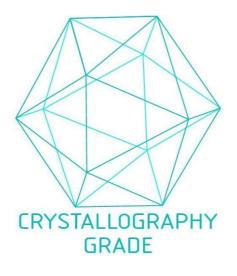


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process