Datasheet for ABIN7559994

SPNS2 Protein (AA 1-549) (His tag)

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Overview

Quantity:	1 mg
Target:	SPNS2
Protein Characteristics:	AA 1-549
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPNS2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Spns2 Protein expressed in mammalian cells.
Sequence:	MMCLECASAA AGGAEEEEAD AERRRRRRGA QPGAGGSACC GARGVGGAGV VSADEEVQTL SGSVRRVPSG LPSIPSTPGC AAAAKGPSAP QPKPASLGRG RGAAAAILSL GNVLNYLDRY TVAGVLLDIQ QHFGVKDRGA GLLQSVFICS FMVAAPIFGY LGDRFNRKVI LSCGIFFWSA VTFSSSFIPQ QYFWLLVLSR GLVGIGEASY STIAPTIIGD LFTKNTRTLM LSVFYFAIPL GSGLGYITGS SVKQAAGDWH WALRVSPVLG MITGTLILIL VPATKRGHAD QLGGQLKART SWLRDMKALI RNRSYVFSSL ATSAVSFATG ALGMWIPLYL HRAQVVQKTA ETCNSPPCGA KDSLIFGAIT CFTGFLGVVT GAGATRWCRL RTQRADPLVC AVGMLGSAIF ICLIFVAAKT SIVGAYICIF VGETLLFSNW AITADILMYV VIPTRRATAV ALQSFTSHLL GDAGSPYLIG FISDLIRQST KDSPLWEFLS LGYALMLCPF VVVLGGMFFL ATALFFLSDR AKAEQQVNQL VMPPASVKV **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SPNS2
Alternative Name:	Spns2 (SPNS2 Products)
Background:	Sphingosine-1-phosphate transporter SPNS2 (Protein spinster homolog 2) (Spinster homolog 2) (Spns2),FUNCTION: Lipid transporter that specifically mediates export of sphingosine-1-phosphate (sphing-4-enine 1-phosphate, S1P) and sphinganine-1-phosphate in the lymph, thereby playing a role in lymphocyte trafficking (PubMed:22664872, PubMed:23103166, PubMed:22406534, PubMed:23180825, PubMed:34260944). S1P is a bioactive signaling molecule that regulates many physiological processes important for the development and for the immune system (PubMed:22664872, PubMed:23103166, PubMed:22406534, PubMed:23180825, PubMed:34260944). Regulates levels of S1P and the S1P gradient that exists between the high circulating concentrations of S1P and low tissue levels that control lymphocyte trafficking (PubMed:22664872, PubMed:22406534, PubMed:23180825, PubMed:34260944). Required for the egress of T-cells from lymph nodes during an immune

Target Details

	response by mediating S1P secretion, which generates a gradient that enables activated T-cells to access lymph (PubMed:22406534, PubMed:34260944). Also required for the egress of immature B-cells from the bone marrow (PubMed:22406534). In contrast, it does not mediate S1P release from red blood cells (PubMed:23103166, PubMed:22406534). Involved in auditory function: S1P release in the inner ear is required for maintenance of the endocochlear potential in the cochlea (PubMed:25356849). In addition to export, also able to mediate S1P import (PubMed:33785361). {ECO:0000269|PubMed:22406534, ECO:0000269|PubMed:22664872, ECO:0000269|PubMed:23103166, ECO:0000269|PubMed:23180825, ECO:0000269|PubMed:25356849, ECO:0000269|PubMed:33785361, ECO:0000269|PubMed:34260944}.
Molecular Weight:	58.2 kDa
UniProt:	Q91VM4

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months