Datasheet for ABIN7552361

ASAH2 Protein (AA 1-780) (His tag)

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Overview

Quantity:	1 mg
Target:	ASAH2
Protein Characteristics:	AA 1-780
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASAH2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ASAH2 Protein expressed in mammalian cells.
Sequence:	MAKRTFSNLE TFLIFLLVMM SAITVALLSL LFITSGTIEN HKDLGGHFFS TTQSPPATQG STAAQRSTAT QHSTATQSST ATQTSPVPLT PESPLFQNFS GYHIGVGRAD CTGQVADINL MGYGKSGQNA QGILTRLYSR AFIMAEPDGS NRTVFVSIDI GMVSQRLRLE VLNRLQSKYG SLYRRDNVIL SGTHTHSGPA GYFQYTVFVI ASEGFSNQTF QHMVTGILKS IDIAHTNMKP GKIFINKGNV DGVQINRSPY SYLQNPQSER ARYSSNTDKE MIVLKMVDLN GDDLGLISWF AIHPVSMNNS NHLVNSDNVG YASYLLEQEK NKGYLPGQGP FVAAFASSNL GDVSPNILGP RCINTGESCD NANSTCPIGG PSMCIAKGPG QDMFDSTQII GRAMYQRAKE LYASASQEVT GPLASAHQWV DMTDVTVWLN STHASKTCKP ALGYSFAAGT IDGVGGLNFT QGKTEGDPFW DTIRDQILGK PSEEIKECHK PKPILLHTGE LSKPHPWHPD IVDVQIITLG SLAITAIPGE FTTMSGRRLR EAVQAEFASH GMQNMTVVIS GLCNVYTHYI TTYEEYQAQR YEAASTIYGP HTLSAYIQLF RNLAKAIATD TVANLSRGPE PPFFKQLIVP LIPSIVDRAP KGRTFGDVLQ PAKPEYRVGE VAEVIFVGAN PKNSVQNQTH QTFLTVEKYE ATSTSWQIVC NDASWETRFY

Product Details

	WHKGLLGLSN ATVEWHIPDT AQPGIYRIRY FGHNRKQDIL KPAVILSFEG TSPAFEVVTI **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.**
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:	ASAH2
Alternative Name:	ASAH2 (ASAH2 Products)
Background:	Neutral ceramidase (N-CDase) (NCDase) (EC 3.5.1.-) (EC 3.5.1.23) (Acylsphingosine deacylase 2) (BCDase) (LCDase) (hCD) (N-acylsphingosine amidohydrolase 2) (Non-lysosomal ceramidase) [Cleaved into: Neutral ceramidase soluble form],FUNCTION: Plasma membrane ceramidase that hydrolyzes sphingolipid ceramides into sphingosine and free fatty acids at neutral pH (PubMed:10781606, PubMed:16229686, PubMed:26190575). Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell

Target Details

	proliferation, apoptosis and differentiation (PubMed:15946935, PubMed:19345744, PubMed:24798654). Also catalyzes the reverse reaction allowing the synthesis of ceramides from fatty acids and sphingosine (PubMed:11278489, PubMed:17475390). Together with sphingomyelinase, participates in the production of sphingosine and sphingosine-1-phosphate from the degradation of sphingomyelin, a sphingolipid enriched in the plasma membrane of cells (PubMed:16061940). Also participates in the hydrolysis of ceramides from the extracellular milieu allowing the production of sphingosine-1-phosphate inside and outside cells (By similarity). This is the case for instance with the digestion of dietary sphingolipids in the intestinal tract (By similarity). {ECO:0000250|UniProtKB:Q9JHE3, ECO:0000269|PubMed:10781606, ECO:0000269|PubMed:11278489, ECO:0000269|PubMed:15946935, ECO:0000269|PubMed:16061940, ECO:0000269|PubMed:16229686, ECO:0000269|PubMed:17475390, ECO:0000269|PubMed:19345744, ECO:0000269|PubMed:24798654, ECO:0000269|PubMed:26190575}.
Molecular Weight:	85.5 kDa
UniProt:	Q9NR71

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