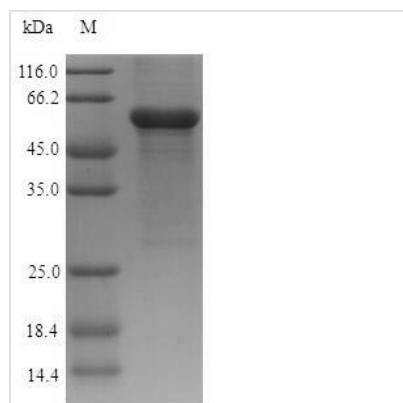




Recombinant Human Acid ceramidase (ASAH1)

Product Code	CSB-EP619774HU
Relevance	Hydrolyzes the sphingolipid ceramide into sphingosine and free fatty acid.
Abbreviation	Recombinant Human ASAH1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q13510
Alias	Acylsphingosine deacylase N-acylsphingosine amidohydrolase Putative 32 kDa heart protein Short name:PHP32
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QHAPPWTEDCRKSTYPPSGPTYRGAVPWYTINLDLPPYKRWHELMMLDKAPVL KVIVNSLKNMINTFVPSGKIMQVVDEKLPGLLGNFPGPFEEEMKGIAAVTDIPLG EISFNIFYELFTICTSIVAEDKKGHLIHGRNMDFGVFLGWNINNDTWVITEQLKP LTVNLDFQRNNKTVFKASSFAGYVGMLTGFKPGLFSLTLNERFSINGGYLGILE WILGKKDVMWIGFLTRTVLENSTSYEEAKNLLTKTKILAPAYFILGGNQSGEGC VITRDRKESLDVYELDAKQGRWYVQTNYDRWKHPFFLDDRRTPAKMCLNRT SQENISFETMYDVLSTKPVNLKLTVYTTLIDVTKGQFETYLRDCPDPCIGW
Research Area	Signal Transduction
Source	E.coli
Target Names	ASAH1
Protein Names	Recommended name: Acid ceramidase Short name= AC Short name= ACDase Short name= Acid CDase EC= 3.5.1.23Alternative name(s): Acylsphingosine deacylase N-acylsphingosine amidohydrolase Putative 32 kDa heart protein Sho
Expression Region	22-395aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	58.7kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Recombinant Human Acid ceramidase (ASAH1) is a partial length protein expressed with N-terminal 6xHis-SUMO-tagged in the E.coli. Its expression region corresponds to 22-395aa of human ASAH1 protein. Its purity was determined by SDS-PAGE and reached up to 90% and presented a molecular mass band of 58.7 kDa on the gel. This recombinant ASAH1 protein may be used to synthesize antibodies against ASAH1. ASAH1 proteins in-stock are available.

ASAH1 is lysosomal ceramidase that hydrolyzes sphingolipid ceramides into sphingosine and free fatty acids at acidic pH. Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation. This enzyme is overexpressed in multiple human cancers and may play a role in cancer progression. ASAH1 mutations are associated with the lysosomal storage disorder, Farber lipogranulomatosis, and a neuromuscular disorder, spinal muscular atrophy with progressive myoclonic epilepsy.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.