

Recombinant Human ASAHI Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ASAHI-3526H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ASAH1 MS Standard C13 and N15-labeled recombinant protein (NP_004306) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the acid ceramidase family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. Processing of this preproprotein generates alpha and beta subunits that heterodimerize to form the mature lysosomal enzyme, which catalyzes the degradation of ceramide into sphingosine and free fatty acid. This enzyme is overexpressed in multiple human cancers and may play a role in cancer progression. Mutations in this gene are associated with the lysosomal storage disorder, Farber lipogranulomatosis, and a neuromuscular disorder, spinal muscular atrophy with progressive myoclonic epilepsy.
Molecular Mass	46.3 kDa
AA Sequence	MNCCIGLGEKARGSHRASYP SLSALFTEASILGFGSFAVKAQWTEDCRKSTYPPSG PTYRGAVPWYTINLDLPPYKRWHEMLDKAPMLKVIVNSLKNMINTFVPSGKVMQVV DEKLPGLLGNFP GPFEEMKGIAAVTDIPLGEIISFNIFYELFTICTSIVAEDKKGHLIHG RNMDFGVFLGWNINNDTWVITEQLKPLTVNLDFQRNNKTVFKASSFAGYVGMLTGF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KPGLFSLTLNERFSINGGYLGILEWILGKKDAMWIGFLTRTVLENSTSYEEAKNLLTKT
 KILAPAYFILGGNQS GEGCVITRDRKESLDVYELDAKQGRWYVVQTN YDRWKHPFF
 LDDRRTPAKMCLNRTSQENISFETMYDVLSTKPVLNKLTVYTTLIDVTKGQFETYLRD
 CPDPCIGWTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ASAH1 N-acylsphingosine amidohydrolase 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [ASAH1](#)

Synonyms ASAH1; N-acylsphingosine amidohydrolase (acid ceramidase) 1; ASAH, N acylsphingosine amidohydrolase (acid ceramidase); acid ceramidase; AC; FLJ21558; PHP32; acid CDase; acylsphingosine deacylase; putative 32 kDa heart protein; PHP; ASAH; ACDase; FLJ22079;

Gene ID [427](#)

mRNA Refseq [NM_004315](#)

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Protein Refseq NP_004306

MIM 613468

UniProt ID Q13510

SDS-PAGE



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