

Recombinant Human ASAH1

Cat. No. ASAH1-26424TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human ASAH1 with an N terminal proprietary tag; Predicted MW 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a heterodimeric protein consisting of a nonglycosylated alpha subunit and a glycosylated beta subunit that is cleaved to the mature enzyme posttranslationally. The encoded protein catalyzes the synthesis and degradation of ceramide into sphingosine and fatty acid. Mutations in this gene have been associated with a lysosomal storage disorder known as Farber disease. Multiple transcript variants encoding several distinct isoforms have been identified for this gene.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Broadly expressed with highest expression in heart.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PPWTEDCRKSTYPPSGPTYRGAVPWYTINLDLPPYKRWHELMMLDKAPMLKVIVNSL KNMINTFVPSGKVMQVVDEKLPGLLGNFPGPFEEEMKGIAAVTD
Sequence Similarities	Belongs to the acid ceramidase family.

GENE INFORMATION

Gene Name	ASAH1 N-acylsphingosine amidohydrolase (acid ceramidase) 1 [Homo sapiens]
Official Symbol	ASAH1
Synonyms	ASAH1; N-acylsphingosine amidohydrolase (acid ceramidase) 1; ASAH, N acylsphingosine amidohydrolase (acid ceramidase); acid ceramidase; AC; FLJ21558; PHP32;
Gene ID	427
mRNA Refseq	NM_001127505
Protein Refseq	NP_001120977
MIM	613468
Uniprot ID	Q13510
Chromosome	8p22

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Location	
Pathway	Ceramide signaling pathway, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolic pathways, organism-specific biosystem; Signal Transduction of S1P Receptor, organism-specific biosystem;
Function	catalytic activity; ceramidase activity; hydrolase activity;

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