

Product datasheet for PH312434

ASAH1 (NM_004315) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ASAH1 MS Standard C13 and N15-labeled recombinant protein (NP_004306)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212434
Predicted MW:	46.3 kDa
Protein Sequence:	>RC212434 representing NM_004315 Red=Cloning site Green=Tags(s)
	MNCCIGLGEKARGSHRASYPSSLALFTEASILGFGSFAVKAQWTEDCRKSTYPPSGPTYRGAVPWYTINL DLPPYKRWHELM LDKAPMLKVI VNSLKNMINTFVPSGKVMQVVDEKLPGLLG NFP GP FEEEMKGI AAVTD IPLGEIISFNIFYELFTICTSIVAEDKKGHLIHGRNMDFGVFLGWNINNDTWITEQLKPLTVNLDFQRN NKT VFKASSFAGYVGM L TGFKPGLFSL TLNERFSINGGYLGILEWILGKKDAMWIGFLTRTVLENSTSYE EAKNLLTKTKILAPAYFILGGNQSGEGCVITRDRKESLDVYELDAKQGRWYVVQTNYDRWKHPFFLDDRR TPAKMCLNRTSQENISFETMYDVLSTKPVLNKLTVYTTLIDVTKGQFETYLRDCPDPCIGW
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004306</u>
RefSeq Size:	2503
RefSeq ORF:	1233
Synonyms:	AC; ACDase; ASAH; PHP; PHP32; SMAPME
Locus ID:	427



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UniProt ID: [Q13510](#), [Q53H01](#), [A8K0B6](#)

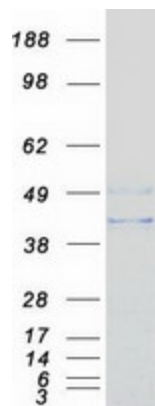
Cytogenetics: 8p22

Summary: 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. [provided by RefSeq, Oct 2015]

Protein Families: Druggable Genome

Protein Pathways: Lysosome, Metabolic pathways, Sphingolipid metabolism

Product images:



Coomassie blue staining of purified ASAH1 protein (Cat# [TP312434]). The protein was produced from HEK293T cells transfected with ASAH1 cDNA clone (Cat# [RC212434]) using MegaTran 2.0 (Cat# [TT210002]).