

## Recombinant Human ASAH1 protein, MYC/DDK-tagged

Cat. No. ASAH1-2682H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human ASAH1, transcript variant 2, fused with MYC/DDK tag at C-terminal was expressed in HEK293.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | HEK293  |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.   |
| <b>Molecular Mass</b>   | 46.3 kDa  |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method  |

### GENE INFORMATION

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|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | ASAH1 N-acylsphingosine amidohydrolase (acid ceramidase) 1 [ Homo sapiens ]   |
| <b>Official Symbol</b>     | ASAH1   |
| <b>Synonyms</b>            | 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;   |
| <b>Gene ID</b>             | 427   |
| <b>mRNA Refseq</b>         | NM_004315   |
| <b>Protein Refseq</b>      | NP_004306   |
| <b>MIM</b>                 | 613468  |
| <b>UniProt ID</b>          | Q13510  |
| <b>Chromosome Location</b> | 8p22  |
| <b>Pathway</b>             | Ceramide signaling pathway, organism-specific biosystem; Glycosphingolipid metabolism, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; |
| <b>Function</b>            | catalytic activity; ceramidase activity; hydrolase activity;  |

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