

# Active Recombinant Human N-Acylsphingosine Amidohydrolase (non-lysosomal ceramidase) 2, His-tagged

Cat. No. ASAH2-582H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human ASAH2 protein was expressed in Chinese Hamster Ovary cell line with a N-terminal 6-His tag. Thr15-Ile761.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Protein Length</b>	15-761 a.a.
<b>Description</b>	The human ASAH2 gene encodes N-acylsphingosine amidohydrolase 2, also known as neutral or non-lysosomal ceramidase. ASAH2 is a type II integral membrane protein that can be cleaved to produce a soluble secreted protein. The enzyme is abundant in the brush border membranes of the intestine, but is also expressed in tissues such as kidney, brain and liver. An N-terminally truncated form of human ASAH2 has been shown to localize to mitochondria.
<b>Form</b>	Supplied as a 0.2 µm filtered solution in MES, NaCl and Sodium Cholate.
<b>N-terminal Sequence</b>	His
<b>Molecular Weight</b>	83 kDa
<b>Activity</b>	Measured by its ability to hydrolyze the substrate C12:0 ceramide into sphingosine and dodecanoic acid. The specific activity is > 5,000 pmoles/min/µg, as measured

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under the described conditions.

**Endotoxin Level** < 1.0EU per 1 µg of the protein by the LAL method.

**SDS-PAGE** 132 kDa, reducing conditions.

**Purity** > 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

## GENE INFORMATION

**Gene Name** [ASAH2 N-acylsphingosineamidohydrolase \(non-lysosomal ceramidase\) 2 \[ Homo sapiens \]](#)

**Official Symbol** [ASAH2](#)

**Synonyms** ASAH2; N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2; HNAC1; BCDase; LCDase; NCDase; N-Cdase; neutral ceramidase; mitochondrial ceramidase; non-lysosomal ceramidase; acylsphingosine deacylase 2; neutral/alkaline ceramidase; N-acylsphingosine amidohydrolase 2; EC 3.5.1.23

**Gene ID** [56624](#)

**mRNA Refseq** [NM\\_001143974](#)

**Protein Refseq** [NP\\_001137446](#)

**MIM** [611202](#)

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<b>UniProt ID</b>	Q9NR71
<b>Chromosome Location</b>	10q11.23
<b>Pathway</b>	Glycosphingolipidmetabolism; Metabolic pathways; Metabolism; Metabolism of lipids andlipoproteins; Sphingolipid metabolism; Sphingosine biosynthesis; sphingolipidmetabolism
<b>Function</b>	ceramidase activity;hydrolase activity

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