

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

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

SPECIFICATION

Product Overview	Recombinant Human ASAH2 protein was expressed in Chinese Hamster Ovary cell line with a N-terminal 6-His tag. Thr15-Ile761.
Species	Human
Source	CHO
Protein Length	15-761 a.a.
Description	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.
Form	Supplied as a 0.2 µm filtered solution in MES, NaCl and Sodium Cholate.
N-terminal Sequence	His
Molecular Weight	83 kDa
Activity	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

 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

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

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