Recombinant Human Neutral ceramidase/ASAH2 Protein

Catalog No.: RP02932

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Sequence Information

Species	Gene ID
Human	54447
Swiss Prot	**Tags**
Q9JHE3	N-His

Synonyms
Neutral ceramidase; N-CDase; NCDase

Product Information

Source	Purification
HEK293 Cells	≥ 95 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
82 kDa	105-115 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

ASAH2 (N-acylsphingosine amidohydrolase 2), also known as neutral ceramidase, 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, and also expressed in several tissues such as kidney, brain and liver. The primary structure of ASAH2/neutral ceramidase is highly conserved from bacteria to humans, however, there is a clear difference in the molecular architecture. The murine ASAH2 possesses 'amucin box', a Ser/Thr/Pro-rich domain glycosylated with O-glycans which is necessary to retain the enzyme on the plasma membrane as a type II integral protein. The major physiological function of ASAH2/neutral ceramidase is the metabolism of dietary sphingolipids, and thus plays a role in the generation of messenger molecules such as sphingosine and sphingosine 1-phosphate.

Basic Information

Description
Recombinant Human Neutral ceramidase/ASAH2 Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Thr34-Thr756) of human Neutral ceramidase/ASAH2 (Accession #NP_061300.1) fused with and a 6×His tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

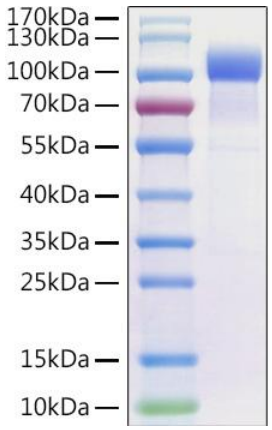
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human Neutral ceramidase/ASAH2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.