

ASAH2 Protein, Mouse (HEK293, His)

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| Cat. No.: | HY-P76735 |
| Synonyms: | Neutral ceramidase; N-Cdase; Acylsphingosine deacylase 2 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | NP_061300.1 (T34-T756) |
| Gene ID: | 54447 |
| Molecular Weight: | 105-115 kDa |

PROPERTIES

AA Sequence

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|---------------------|---------------------|---------------------|---------------------|
| T S G T I E N H K D | S G N H W F S T T L | G S T T T Q P P P I | T Q T P N F P S F R |
| N F S G Y Y I G V G | R A D C T G Q V S D | I N L M G Y G K N G | Q N A R G L L T R L |
| F S R A F I L A D P | D G S N R M A F V S | V E L C M I S Q R L | R L E V L K R L E S |
| K Y G S L Y R R D N | V I L S A I H T H S | G P A G F F Q Y T L | Y I L A S E G F S N |
| R T F Q Y I V S G I | M K S I D I A H T N | L K P G K I F I N K | G N V A N V Q I N R |
| S P S S Y L L N P Q | S E R A R Y S S N T | D K E M L V L K L V | D L N G E D L G L I |
| S W F A I H P V S M | N N S N H F V N S D | N M G Y A A Y L F E | Q E K N K G Y L P G |
| Q G P F V A G F A S | S N L G D V S P N I | L G P H C V N T G E | S C D N D K S T C P |
| N G G P S M C M A S | G P G Q D M F E S T | H I I G R I I Y Q K | A K E L Y A S A S Q |
| E V T G P V L A A H | Q W V N M T D V S V | Q L N A T H T V K T | C K P A L G Y S F A |
| A G T I D G V S G L | N I T Q G T T E G D | P F W D T L R D Q L | L G K P S E E I V E |
| C Q K P K P I L L H | S G E L T I P H P W | Q P D I V D V Q I V | T V G S L A I A A I |
| P G E L T T M S G R | R F R E A I K K E F | A L Y G M K D M T V | V I A G L S N V Y T |
| H Y I T T Y E E Y Q | A Q R Y E A A S T I | Y G P H T L S A Y I | Q L F R D L A K A I |
| A T D T V A N M S S | G P E P P F F K N L | I A S L I P N I A D | R A P I G K H F G D |
| V L Q P A K P E Y R | V G E V V E V I F V | G A N P K N S A E N | Q T H Q T F L T V E |
| K Y E D S V A D W Q | I M Y N D A S W E T | R F Y W H K G I L G | L S N A T I Y W H I |
| P D T A Y P G I Y R | I R Y F G H N R K Q | E L L K P A V I L A | F E G I S S P F E V |
| V T T | | | |

Biological Activity

Measured by its ability to hydrolyze the substrate C12:0 ceramide into sphingosine and dodecanoic acid. The specific activity is 18415.400 pmol/min/μg, as measured under the described conditions.

Appearance

Lyophilized powder

Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/μg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

The ASAH2 protein is recognized for its role in enabling N-acylsphingosine amidohydrolase activity, a crucial function in lipid digestion and sphingolipid metabolic processes. Its presence in diverse cellular compartments, including caveola, extracellular space, and mitochondrion, underscores its versatility. As an integral component of the plasma membrane, ASAH2 holds significance in cellular structure and function. The orthologous relationship with several human genes, including ASAH2B (N-acylsphingosine amidohydrolase 2B), further emphasizes its evolutionary conservation. The expression profile reveals a broad presence across tissues, with notable levels in the small intestine adult and large intestine adult, suggesting a pivotal role in maintaining lipid homeostasis and metabolic processes in various physiological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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