

Recombinant Human ASPH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ASPH-6093H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ASPH MS Standard C13 and N15-labeled recombinant protein (NP_004309) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is thought to play an important role in calcium homeostasis. The gene is expressed from two promoters and undergoes extensive alternative splicing. The encoded set of proteins share varying amounts of overlap near their N-termini but have substantial variations in their C-terminal domains resulting in distinct functional properties. The longest isoforms (a and f) include a C-terminal Aspartyl/Asparaginyl beta-hydroxylase domain that hydroxylates aspartic acid or asparagine residues in the epidermal growth factor (EGF)-like domains of some proteins, including protein C, coagulation factors VII, IX, and X, and the complement factors C1R and C1S. Other isoforms differ primarily in the C-terminal sequence and lack the hydroxylase domain, and some have been localized to the endoplasmic and sarcoplasmic reticulum. Some of these isoforms are found in complexes with calsequestrin, triadin, and the ryanodine receptor, and have been shown to regulate calcium release from the sarcoplasmic reticulum. Some isoforms have been implicated in metastasis.
Molecular Mass	85.7 kDa

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AA Sequence

MAQRKNAKSSGNSSSSSGSGSGSTSAGSSSPGARRETKHGGHKNGRKGGLSGTSF
FTWFMVIALLGWVTSVAVVWFDLVDYEEVLGKLGIIYDADGDGDFDVDDAKVLLGLK
ERSTSEPAVPPEEAEPHTEPEEQVPVEAEPQNIIDEAKEQIQSLLHEMVHAEHVEGE
DLQQEDGPTGEPQQEDDEFLMATDVDDRFELEPEVSHEETEHSYHVEETVSQDC
NQDMEEMMSEQENPDSSEPVEDERLHHDTDDVTYQVYEEQAVYEPLENEGIEITE
VTAPPEDNPVEDSQVIVEEVSIFPVEEQQEVPPETNRKTDDPEQKAKVKKKKPKLLN
KFDKTIKAELDAAEKLRKRGKIEEAVNAFKELVRKYPQSPRARYGKAQCEDDLAEKR
RSNEVLRGAIETYQEVASLPDVPADLLKLSLKRRSDRQQFLGHMRGSLTLQRLVQL
FPNDTSLKNDLGVGYLLIGDNDNAKKVYEEVLSVTPNDGFAKVHYGFILKAQNKIAES
IPYLKEGIESGDPGTDDGRFYFHLGDAMQRVGNKEAYKWYELGHKRGHFASVWQR
SLYNVNLKAQPWWTPKETGYTELKSLERNWKLIRDEGLAVMDKAKGLFLPEDEN
LREKGDWSQFTLWQQGRRNENACKGAPKTCTLLEKFPETTGCRRGQIKYSIMHPG
THVWPHTGPTNCRFRMHLGLVIPKEGCKIRCANETKTWEEGKVLIFDDSFHEVWQ
DASSFRLIFVDVWHPELTPQQRSLPAITRTRPLEQKLISEEDLAANDILDYKDDDDK
V

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

ASPH aspartate beta-hydroxylase [Homo sapiens (human)]

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Official Symbol	ASPH
Synonyms	ASPH; aspartate beta-hydroxylase; aspartyl/asparaginyl beta-hydroxylase; BAH; CASQ2BP1; HAAH; humbug; JCTN; junctate; junctin; A beta H-J-J; cardiac junctin; ASP beta-hydroxylase; peptide-aspartate beta-dioxygenase; aspartyl/asparaginyl-beta-hydroxylase; AAH;
Gene ID	444
mRNA Refseq	NM_004318
Protein Refseq	NP_004309
MIM	600582
UniProt ID	Q12797
SDS-PAGE	