

Recombinant Full Length Human ASPH Protein, C-Flag-tagged

Cat. No. ASPH-506HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ASPH Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	85.7 kDa

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AA Sequence

MAQRKNAKSSGNSSSSSGSGSGSTSAGSSSPGARRETKHGGHKNGRKGGLSGTSTF
FTWFMVIALLGWVTSV AVVWFDLVDYEEVLGKLGIIYDADGDGDFDVEDDAKVLLGLK
ERSTSEPAVPPEEAEPHTEPEEQVPVEAEP QNIEDEAKEQIQSLLHEMVHAEHVEG
EDLQQEDGPTGEPQQEDDEFMATDVDDRFELEPEVSHEETEH SYHVEETVSQD
CNQDMEEMMSEQENPDSSEPVEDERLHHD TD DVTYQVYEEQAVYEPLENEGIEIT
EVT APPEDNPVEDSQVIVEEVSIFPVEEQQEVPPETNRKTDDPEQKAKVKKKKPKLL
NKFDKTIKAELDAAEK LRKRKGIEEAVNAFKELVRKYPQSPRARYGKAQCEDDLAEK
RRSNEVLRGAIETYQEVASLPDVPADLLK LSLKRRSDRQQFLGHMRGSLTLQRLV
QLFPNDTSLKNDLGVGYLLIGDNDNAKKVYEEVLSVTPNDGFA KVHYGFILKAQNKI
AESIPYLKEGIESGDPGTDDGRFYFHLGDAMQRVGNKEAYKWYELGHKRGHFASV
W QRSLYNVNGLKAQPWWTPKETGYTELVKSLERNWKLIRDEGLAVMDKAKGLFLP
EDENLREKGDWSQFTL WQQGRRNENACKGAPKTCTLLEKFPETTGCRRGQIKYSI
MHPGTHVWPHTGPTNCRFRMHLGLVIPKEGC
KIRCANETKTWEEGKVLIFDDSFHEVWQDASSFRLIFVDVWHPELTPQQRRSLPAI
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Druggable Genome, Transmembrane

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Full Length Full L.

GENE INFORMATION

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

Official Symbol ASPH

Synonyms AAH; BAH; HAAH; JCTN; FDLAB; junctin; CASQ2BP1

Gene ID 444

mRNA Refseq NM_004318.4

Protein Refseq NP_004309.2

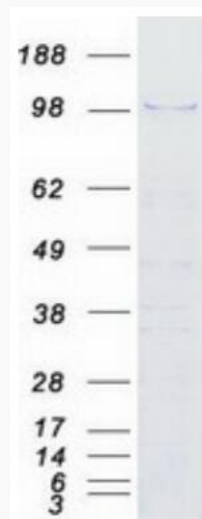
MIM 600582

UniProt ID Q12797

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Coomassie blue staining of purified ASPH protein.