

Recombinant Human ASPH, His-tagged

Cat. No. ASPH-27059TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant fragment, corresponding to amino acids 75-270 of Human Aspartate beta hydroxylase with N terminal His tag; 217 amino acids with tag, MWt 24.5kDa.

Species Human

Source E.coli

ProteinLength 75-270 a.a.

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.

Conjugation HIS

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MFDLVDYEEV LGKLG IYDAD GDGDFDVDDA KVLGLKERS TSEPAVPPEE AEPHTEPEEQ VPVEAEPQNI EDEAKEQIQS LLHEMVHAEH ETEHSYHVEE TVSQDCNQDM EEMMSEQENP DSSEPVEDE RLHHD TDDVT YQVYEEQAVY EPLENEGIEI TEVTAPPEDN PVEDSQVIVE EVSIFPVEEQ QEVPPDT

GENE INFORMATION

Gene Name	ASPH aspartate beta-hydroxylase [Homo sapiens]
Official Symbol	ASPH
Synonyms	ASPH; aspartate beta-hydroxylase; aspartyl/asparaginyl beta-hydroxylase; BAH; CASQ2BP1; HAAH; humbug; JCTN; junctate; junctin;
Gene ID	444
mRNA Refseq	NM_001164750
Protein Refseq	NP_001158222
MIM	600582

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Uniprot ID	Q12797
Chromosome Location	8q12.1
Function	binding; calcium ion binding; calcium ion binding; electron carrier activity; oxidoreductase activity;

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