

Recombinant Full Length Human ASPH Protein, GST-tagged

Cat. No. ASPH-1057HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ASPH full-length ORF (NP_115856.1, 1 a.a. - 210 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	210 amino acids
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	50.2 kDa

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AA Sequence	MAEDKETKHG GHKNGRKGGI SGTSFFTWFV VIALLGVWTS VAVVWFDLVD YEEVLGKLG IYDADGDGDFD VDDAKVLLEG PSGVAKRRTK AKVKELTKEE LKKEKEKPES RKESKNEERK KGKKEDVRKD KKIADADLSR KESPKGKKDR EKEKVDLEKS AKTKENRKKS TNMKDVSSKM ASRDKDDRKE SRSSTRY AHL TKGNTQKRNG
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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; 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_001164750
Protein Refseq	NP_001158222
MIM	600582

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UniProt ID

Q12797

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