

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	<p>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.</p>
Molecular Mass	50.2 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



AA Sequence
MAEDKETKHG GHKNGRKGGL SGTSFFTWFM VIALLGVWTS VAVVWFDLVD
YEEVLGKLG IYDADGDGDFD VDDAKVLLEG PSGVAKRRTK AKVKELTKEE
LKKEKEKPES RKESKNEERK KGKKEDVRKD KKIADADLSR KESPKGKKDR
EKEKVDLEKS AKTKENRKK S TNMKDVSSKM ASRDKDDRKE SRSSTRYAHL
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

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA



UniProt ID

Q12797

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA