

Recombinant Human ASPH, GST-tagged

Cat. No. ASPH-9940H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ASPH protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-203a.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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing

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cycles.

Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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](#)

UniProt ID

[Q12797](#)

**Chromosome
Location**

8q12.1

Function

binding; calcium ion binding; calcium ion binding; electron carrier activity; oxidoreductase activity; oxidoreductase activity, acting on single donors with

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incorporation of molecular oxygen, incorporation of two atoms of oxygen; peptide-aspartate beta-di

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