

## Recombinant Human ASPH Protein, His-tagged

ASPH-396H Human

Lot. No. (See product label)

### Specification

#### Product Overview

Recombinant Human ASPH(Arg562~Ile758) fused with His tag at N-terminal was expressed in E. coli.

#### 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.

#### Source

E. coli

#### Species

Human

#### Tag

His

#### Form

PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

#### Molecular Mass

26.6kDa

#### Protein length

Arg562~Ile758

#### Endotoxin

<1.0EU per 1µg (determined by the LAL method)

#### Purity

>98%

#### Applications

Positive Control; Immunogen; SDS-PAGE; WB.  
If bio-activity of the protein is needed, please check active protein.

#### Stability

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

#### Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

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

Tel: +1-631-559-9269 Fax: +1-631-938-8127

E-mail: [info@creative-biomart.com](mailto:info@creative-biomart.com)

[www.creativebiomart.net](http://www.creativebiomart.net)

**Reconstitution** Reconstitute in PBS or others.

## 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](#)

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Tel: +1-631-559-9269 Fax: +1-631-938-8127

E-mail: [info@creative-biomart.com](mailto:info@creative-biomart.com)

[www.creativebiomart.net](http://www.creativebiomart.net)