

Recombinant Human Aspartate beta-hydroxylase, His-tagged

Cat. No. ASPH-1940H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ASPH protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 24.5 kDa (217aa).
Species	Human
Source	E.coli
Description	ASPH (Aspartate beta-hydroxylase) is a widely-expressed type II membrane protein involved in calcium homeostasis. Located in the endoplasmic reticulum, ASPH specifically hydroxylates an Asp or Asn residue in the epidermal growth factor-like (EGF) domains of several proteins, using iron as a cofactor. While all ASPH variants are expressed in skeletal muscle, only some are detected in heart, brain, pancreas, placenta, lung, liver, and kidney tissues.
Purity	> 90% by SDS – PAGE.
Physical Appearance	Liquid.
Formulation	In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MFDLV DYEEV LGKLG IYDAD GDGDFDVDDA KVLL GLKERS TSEPAV PPEE AEPHTEPEEQ VPVEAEPQNI EDEAKEQIQS

 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

LLHEMVHAEH ETEHSYHVEE TVSQDCNQDM EEMMSEQENP DSSEPVEDE
 RLHHD TDDVT YQVYEEQAVY EPLENEGIEI TEVTAPPEDN PVEDSQVIVE
 EVSIFPVEEQ QEVPPDT.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

ASPH aspartate beta-hydroxylase [Homo sapiens]

Synonyms

ASPH; aspartate beta-hydroxylase; AAH; BAH; HAAH; JCTN; junctin; CASQ2BP1; aspartyl/asparaginyl beta-hydroxylase; aspartyl/asparaginyl beta-hydroxylase; humbug; junctate; A beta H-J-J; cardiac junctin; ASP beta-hydroxylase; peptide-aspartate beta-dioxygenase; aspartyl/asparaginyl-beta-hydroxylase; EC 1.14.11.1

Gene ID

444

mRNA Refseq

NM_001164750

Protein Refseq

NP_001158222

MIM

600582

UniProt ID

Q12797

**Chromosome
Location**

8q12

Function

Binding;calcium ion binding;electron carrier activity;oxidoreductase activity;oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen;peptide-

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aspartate beta-dioxygenase activity;structural constituent of muscle;structural molecule activity.

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