

Product information



ASPH, 75-270 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0484

Full Name: Aspartyl/asparaginyl beta-hydroxylase

NCBI Accession No.: NP_001158227

Synonyms: AAH, BAH, CASQ2BP1, HAAH, JCTN, junctin

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. Recombinant human ASPH protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p>Form: Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT 10% glycerol</p> <p>Molecular Weight: 24.5 kDa (217aa) (Real molecular weight on SDS-PAGE will be shifted up)</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 1 mg/ml (determined by Bradford assay)</p>	<p>(KDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p><u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MFDLVDYEEV LGKLG IYDAD GDGDFDVDDA KVL LGLKERS TSEPAVPPPEE AEPHTEPEEQ VPVEAEPQNI EDEAKEQIQS LLHEMVHAEH ETEHSYHVEE TVSQDCNQDM EEMSEQENP DSSEPVEDE RLHHD TDDVT QVYEEQAVY EPLENEGIEI TEVTAPPEDN PVEDSQVIVE EVSIFPVEEQ QEVPPDT</p>	

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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General references:

Kwon S.J., *et al.* (2009) *Biochem Biophys Res Commun.* 390(4):1389-94.

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.

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