Recombinant human ASPH protein

Catalog Number: ATGP0484

PRODUCT INFORMATION

Expression system
E.coli

Domain
75-270aa

UniProt No.
Q12797

NCBI Accession No.
NP_001158227.1

Alternative Names
Aspartyl/asparaginyl beta-hydroxylase, AAH, BAH, CASQ2BP1, HAAH, JCTN, junctin, Aspartyl/asparaginyl beta-hydroxylase ASP beta hydroxylase, Aspartyl/asparaginyl beta hydroxylase, Peptide aspartate beta dioxygenase,

PRODUCT SPECIFICATION

Molecular Weight
24.5 kDa (217aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

Amino acid Sequence

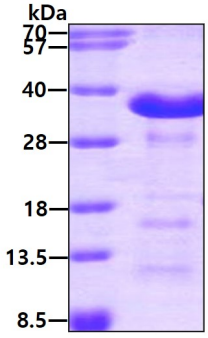
<MGSSHHHHHH SSGLVPRGSH M>FDLVDYEEV LGKLGIYDAD GDGDFDVDDA KVLLGLKERS TSEPAVPPEE AEPHTEPEEQ VPVEAEPQNI EDEAKEQIQS LLHEMVHAEH ETEHSYHVEE TVSQDCNQDM EEMMSEQENP DSSEPVVEDE RLHHDTDDVT YQVYEEQAVY EPLENEGIEI TEVTAPPEDN PVEDSQVIVE EVSIFPVEEQ QEVPPDT

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.