
Product Data Sheet

Product Name: ASPH Human
 Cat. No.: GP21422
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AAH; BAH; CASQ2BP1; HAAH; JCTN; Junctin; EC 1.14.11.16; Aspartyl/asparaginyl beta-hydroxylase; Aspartate beta-hydroxylase; Peptide-aspartate beta-dioxygenase; ASP beta-hydroxylase; ASPH.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MFDLVYEEV LGKLGIDAD GDGDFDVDDA KVLLGLKERS TSEPAVPPEE AEPHTEPEEQ VPVEAEPQNI EDEAKEQIQS LLHEMVHAEH ETEHSYHVEE TVSQDCNQDM EEMMSEQENP DSSEPVEDE RLHHD TDDVT YQVYEEQAVY EPLENEGIEI TEVTAPPEDN PVEDSQVIVE EVSIFPVEEQ QEVPPDT.		
Formulation	The ASPH protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.		

Introduction

ASPH hydroxylates an Asp or Asn residue in EGF domains. ASPH is involved in calcium homeostasis. ASPH is expressed from two promoters and goes through extensive alternative splicing. The encoded set of ASPH proteins share varying quantities of overlap near their N-termini although have considerable differences 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 EGF domain, including protein C, coagulation factors VII, IX, and X, and the complement factors C1R and C1S. Further isoforms diverge mainly in the C-terminal sequence and lack the hydroxylase domain, and some have been localized to the endoplasmic and sarcoplasmic reticulum.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ASPH Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 217 amino acids (75-270 a.a.) and having a molecular mass of 24.5 kDa. The ASPH is fused to a 20 amino acid His Tag and purified by conventional chromatography.

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