

## Product datasheet for PH316796

### Aspartate beta hydroxylase (ASPH) (NM\_004318) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ASPH MS Standard C13 and N15-labeled recombinant protein (NP_004309)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216796
Predicted MW:	85.7 kDa
Protein Sequence:	>RC216796 representing NM_004318 Red=Cloning site Green=Tags(s)

MAQRKNAKSSGNSSSSSGSGSGSTSAGSSSPGARRETKHGGHKNRKGGLSGTSFFTFWFMVIALLGWTSV  
AVVWFDLVYEEVLGKLGIDADGDGDFVDDAKVLLGLKERSTSEPAVPPPEEAEPHTEPEEQVPVEAEP  
QNIIDEAKEQIQSLLHEMVHAEHVEGEDLQQEDGPTGEPQQEDDEFMATDVDDRFETLEPEVSHEETEH  
SYHVEETSQDCNQDMEEMSEQENPDSSEPVVEDERLHHDTDDVTVQVYEEQAVYEPLNEGIEITEVT  
APPEDNPVEDSQIVVEEVSIFPVEEQEVPPETNRKTDDPEQKAKVKKKKPKLLNKFDKTIKAELDAAEK  
LRKRGKIEEAVNAFKELVRKYPQSPRARYGKAQCEDDLAEKRRSNEVLRGAIETYQEASLPDVPADLLK  
LSLKRRSDRQQFLGHMRGSLTLQRLVQLFPNDTSLKNDLGVGYLLIGDNDNAKKVYEEVLSVTPNDGFA  
KVHYGFILKAQNKIAESIPYLKEGIESGDPGTDGGRFYFHLGDAMQRVGNKEAYKWYELGHKRGHFASVW  
QRSLYNVNGLKAQPWWTPKETGYTELKSLERNWKLIRDEGLAVMDKAKGLFLPEDENLREKGDWSQFTL  
WQQGRRNENACKGAPKTCTLLEKFPETTGCRRGQIKYSIMHPGTHVWPHTGPTNCRFRMHLGLVIPKEGC  
KIRCANETKTWEEGKVLIFDDSFHEVWQDASSFRLIFIVDVVHPELTPQRRSLPAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004309</a>



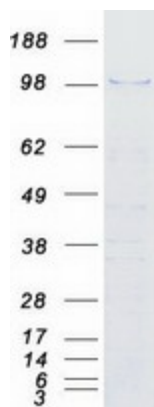
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RefSeq Size:	2452
RefSeq ORF:	2274
Synonyms:	AAH; BAH; CASQ2BP1; FDLAB; HAAH; JCTN; junctin
Locus ID:	444
UniProt ID:	<a href="#">Q12797</a>
Cytogenetics:	8q12.3

**Summary:** 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. [provided by RefSeq, Sep 2009]

**Protein Families:** Druggable Genome, Transmembrane

### Product images:



Coomassie blue staining of purified ASPH protein (Cat# [TP316796]). The protein was produced from HEK293T cells transfected with ASPH cDNA clone (Cat# [RC216796]) using MegaTran 2.0 (Cat# [TT210002]).