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# Product datasheet for PH311817

## Aspartate beta hydroxylase (ASPH) (NM_032466) Human Mass Spec Standard

### Product data:

| | |
|---|---|
| **Product Type:** | Mass Spec Standards |
| **Description:** | ASPH MS Standard C13 and N15-labeled recombinant protein (NP_115855) |
| **Species:** | Human |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | RC211817 |
| **Predicted MW:** | 34.6 kDa |
| **Protein Sequence:** | >Peptide sequence encoded by RC211817<br>Blue=ORF Red=Cloning site Green=Tag(s)<br><br>MAQRKNAKSSGNSSSSGSGSGSTSAGSSSPGARRETKHGGHKNGRKGGLSGTSFFTWFMVIALLGVWTS<br>VAVVWFDLVDYEEVLGKLGIYDADGDGDFDVDDAKVLLGLKERSTSEPAVPPEEAEPHTEPEEQVPVEA<br>EPQNIEDEAKEQIQSLLHEMVHAEHVEGEDLQQEDGPTGEPQQEDDEFLMATDVDDRFETLEPEVSHEE<br>TEHSYHVEETVSQDCNQDMEEMMSEQENPDSSEPVVEDERLHHDTDDVTYQVYEEQAVYEPLENEGIEI<br>TEVTAPPEDNPVEDSQVIVEEVSIFPVEEQQEVPPDT<br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV<br><br>Recombinant protein using RC211817 also available, TP311817 |
| **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:** | NP_115855 |
| **RefSeq Size:** | 2680 |
| **RefSeq ORF:** | 939 |
| **Synonyms:** | AAH; BAH; CASQ2BP1; FDLAB; HAAH; JCTN; junctin |
| **Locus ID:** | 444 |

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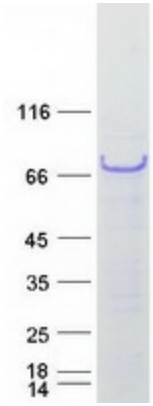
**UniProt ID:** Q12797

**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# [TP311817]). The protein was produced from HEK293T cells transfected with ASPH cDNA clone (Cat# [RC211817]) using MegaTran 2.0 (Cat# [TT210002]).