

## ASPH Protein, Human, Recombinant (His)

### General Information

Synonyms:	Aspartate beta-hydroxylase;ASP beta-hydroxylase;Asph;Bah;Aspartate $\beta$ -hydroxylase;ASP $\beta$ -hydroxylase
Protein Construction:	Ile341-Ile758
Species:	Human
Expression Host:	E. coli
Accession:	Q12797-1
Molecular Weight:	49.2 kDa (predicted) same as Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 $\mu$ m filtered solution in 20 mM Tris, 500 mM NaCl (pH 7.4).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Aspartate  $\beta$ -hydroxylase (ASPH) is silent in normal adult tissues only to re-emerge during oncogenesis where its function is required for generation and maintenance of malignant phenotypes. Exosomes enable prooncogenic secretome delivering and trafficking for long-distance cell-to-cell communication. Expression profiling of Notch signaling components positively correlates with ASPH expression in breast cancer patients, confirming that ASPH-Notch axis acts functionally in breast tumorigenesis.

#### Reference

Lin Q, et al. ASPH-notch Axis guided Exosomal delivery of Prometastatic Secretome renders breast Cancer multi-organ metastasis. Mol Cancer. 2019 Nov 7;18(1):156. doi: 10.1186/s12943-019-1077-0. PMID: 31694640; PMCID: PMC6836474.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481