

Rev03
 Update: Aug,08,2025
DATASHEET

ASPH, His, Human

Cat. No.: Z05045

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #4a7c9c; color: white; padding: 5px; margin-right: 10px;">His</div> <div style="background-color: #0070c0; color: white; padding: 5px; border: 1px solid white;"> ASPH (Ile341-Ile758) Accession # Q12797-1 </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Expression System	E.coli
Theoretical Molecular Weight	49.2 kDa
Apparent Molecular Weight	The protein has a predicted MW of 49.2 kDa same as Bis-Tris PAGE result.
Formulation	Supplied as 0.22µm filtered solution in 20mM Tris, 500mM NaCl (pH 7.4).
Concentration	Verified by one or more methods from A280/Bioactivity/BCA/Bradford.
Storage & Stability	This product remains stable for 6 months at -80°C or below. Avoid repeated freeze-thaw cycles.

Background

Target Background : Aspartate β-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.

Synonyms : Aspartate beta-hydroxylase; ASP beta-hydroxylase; Asph; Bah; Aspartate β-hydroxylase; ASP β-hydroxylase

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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