

ABHD4 Protein, Human (sf9, His)

Cat. No.:	HY-P76133
Synonyms:	(Lyso)-N-acylphosphatidylethanolamine lipase; Alpha/beta-hydrolase 4; ABHD4
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8TB40 (M1-D342)
Gene ID:	63874
Molecular Weight:	Approximately 40 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ABHD4, a lysophospholipase, exhibits selectivity for N-acyl phosphatidylethanolamine (NAPE) and plays a vital role in the biosynthesis of N-acyl ethanolamines, such as the endocannabinoid anandamide. It achieves this by hydrolyzing the sn-1 and sn-2 acyl chains from NAPE, generating glycerophospho-N-acyl ethanolamine (GP-NAE), an intermediate crucial for N-acyl ethanolamine biosynthesis. ABHD4 demonstrates activity across a range of substrates with saturated, monounsaturated, and polyunsaturated N-acyl chains, contributing to the diversity of N-acyl ethanolamines produced. Notably, it exhibits no significant activity towards other lysophospholipids, including lysophosphatidylcholine, lysophosphatidylethanolamine, and lysophosphatidylserine.
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Caution: Product has not been fully validated for medical applications. For research use only.

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