

ABHD10 Protein, Human (sf9, His)

Cat. No.:	HY-P76706
Synonyms:	Palmitoyl-protein thioesterase ABHD10; Acyl-protein thioesterase ABHD10
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9NUJ1 (T53-N306)
Gene ID:	55347
Molecular Weight:	Approximately 32 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 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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	ABHD10 protein serves as an acyl-protein thioesterase, playing a crucial role in hydrolyzing fatty acids from acylated residues in proteins. Notably, it regulates the mitochondrial S-depalmitoylation of the nucleophilic active site residue of peroxiredoxin-5/PRDX5, a key antioxidant protein, thereby modulating the antioxidant capacity of mitochondria. Beyond its involvement in redox homeostasis, ABHD10 catalyzes the deglucuronidation of mycophenolic acid acyl-glucuronide, which is an active metabolite of the immunosuppressant drug mycophenolate. This dual functionality underscores the diverse regulatory impact of ABHD10 in cellular processes related to lipid metabolism, mitochondrial function, and drug metabolism.
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Caution: Product has not been fully validated for medical applications. For research use only.

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