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Recombinant Human ABHD4 Protein

Catalog No.: RP03195 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	63874	Q8TB40

Tags
N-His

Synonyms
ABHD4;(Lyso)-N-acylphosphatidylethanolamine lipase; 3.1.1.-; Alpha/beta hydrolase domain-containing protein 4; Abhydrolase domain-containing protein 4; Alpha/beta-hydrolase 4

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 80% as determined by SDS-PAGE.

Calculated MW	Observed MW
40 kDa.	

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0.

Reconstitution

Background

Abhydrolase domain containing 4 (ABHD4), also known as alpha/beta-hydrolase 4 (ABH4) , or lyso-N-acylphosphatidylethanolamine lipase, which belongs to the ABHD4/ABHD5 subfamily of peptidase S33 family. Abhydrolase domain containing (ABHD) gene was a small group belongs to alpha/beta hydrolase superfamily. Known members of this group are all found to be involved in important biochemical processes and related to various diseases. The alpha/beta-hydrolase 4 (ABH4) is a lysophospholipase/phospholipase B that selectively hydrolyzes N-acyl phosphatidylethanolamines (NAPEs) and lysoNAPEs. ABH4 accepts lysoNAPEs bearing both saturated and polyunsaturated N-acyl chains as substrates and displays a distribution that closely mirrors lysoNAPE-lipase activity in mouse tissues. The existence of an NAPE-PLD-independent route for NAE biosynthesis and suggest that ABH4 plays a role in this metabolic pathway by acting as a (lyso)NAPE-selective lipase.

Basic Information

Description
Recombinant Human ABHD4 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Asp342) of Human ABHD4 (Accession #NP_071343.2) fused with a His tag at the N-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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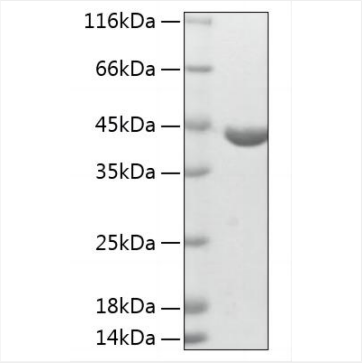
Validation Data



Recombinant Human ABHD4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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