Recombinant ABHD3 protein (His tag)

Catalog Number	547822
Synonyms	Abhydrolase domain-containing protein 3
Species	Human
Expression System	E. coli
Accession	Q8WU67
Molecular Weight	Predictes a molecular mass of 42.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	47-409
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 47-409 aa (Q8WU67) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human ABHD3 Phospholipase Fragment (residues 47-409) is a high-purity protein designed for studying phospholipid remodeling. This fragment fully encompasses the AB hydrolase-1 domain, making it an ideal tool for investigating the enzyme's specific catalytic functions in lipid metabolism. Phospholipase ABHD3 is a membrane-associated enzyme involved in phospholipid remodeling, primarily exhibiting phospholipase 1 activity with selectivity for myristate (C14)-containing phosphatidylcholines. It cleaves acyl groups preferentially at the sn1 position, with minor phospholipase 2 activity at the sn2 position. The enzyme also acts on other medium-chain and oxidatively truncated phospholipids. As a single-pass type II membrane protein localized to cellular membranes, ABHD3 plays a significant role in lipid metabolic pathways, with implications for understanding cellular membrane dynamics and lipid signaling processes.