Recombinant ABHD1 protein (His tag)

Catalog Number	549346
Synonyms	Alpha/beta hydrolase domain-containing protein 1; Abhydrolase domain-containing protein 1; Lung alpha/beta hydrolase 1
Species	Human
Expression System	E. coli
Accession	Q96SE0
Molecular Weight	Predictes a molecular mass of 42.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	38-405
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 38-405 aa (Q96SE0) 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 ABHD1 Protein Fragment (residues 38-405) is a high-purity, functional protein designed for studying the alpha/beta hydrolase domain. This fragment fully encompasses the AB hydrolase-1 domain (residues 123-364), making it an ideal tool for enzymatic assays, structural studies, and functional characterization of this membrane-associated hydrolase. ABHD1 (Alpha/beta hydrolase domain-containing protein 1) is a human protein belonging to the serine hydrolase superfamily. As a single-pass type II membrane protein, it is localized to cellular membranes, suggesting potential roles in membrane-associated metabolic processes. While specific enzymatic functions remain to be fully characterized, its conserved alpha/beta hydrolase domain structure indicates hydrolase activity, potentially involved in lipid metabolism or signaling pathways. The membrane localization further suggests possible roles in interface catalysis or membrane protein interactions.