

Datasheet for ABIN7551843
ABHD12 Protein (AA 1-398) (His tag)



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Overview

Quantity:	1 mg
Target:	ABHD12
Protein Characteristics:	AA 1-398
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABHD12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ABHD12 Protein expressed in mammalian cells.
Sequence:	MRKRTEPVAL EHERCAAAGS SSSGSAAAAL DADCRLKQNL RLTGPAAAEP RCAADAGMKR ALGRRKGVWL RLRKILFCVL GLYIAIPFLI KLCPGIQAKL IFLNFVRVPY FIDLKKPQDQ GLNHTCNYYL QPEEDVTIGV WHTVPAVWWK NAQGKDQMWY EDALASSHPI ILYLHGNAGT RGGDHRVELY KVLSSLGYHV VTFDYRGWGD SVGTPSERGM TYDALHVFDW IKARSGDNPV YIWGHSLGTG VATNLVRRRLC ERETTPDALI LESPFTNIRE EAKSHPFSVI YRYFPGFDWF FLDPITSSGI KFANDENVKH ISCPDLLILHA EDDPVVPFQL GRKLYSIAAP ARSFRDFKVQ FVPFHSDLGY RHKYIYKSPE LPRILREFLG KSEPEHQH Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

ABHD12

Alternative Name:

ABHD12 ([ABHD12 Products](#))

Background:

Lysophosphatidylserine lipase ABHD12 (EC 3.1.-.-) (2-arachidonoylglycerol hydrolase ABHD12) (Abhydrolase domain-containing protein 12) (hABHD12) (Monoacylglycerol lipase ABHD12) (EC 3.1.1.23) (Oxidized phosphatidylserine lipase ABHD12) (EC 3.1.-.-),FUNCTION:

Lysophosphatidylserine (LPS) lipase that mediates the hydrolysis of lysophosphatidylserine, a class of signaling lipids that regulates immunological and neurological processes (PubMed:25290914, PubMed:30237167, PubMed:30420694, PubMed:30720278, PubMed:30643283). Represents a major lysophosphatidylserine lipase in the brain, thereby playing a key role in the central nervous system (By similarity). Also able to hydrolyze oxidized phosphatidylserine, oxidized phosphatidylserine is produced in response to severe inflammatory stress and constitutes a proapoptotic 'eat me' signal (PubMed:30643283). Also has monoacylglycerol (MAG) lipase activity: hydrolyzes 2-arachidonoylglycerol (2-AG), thereby acting as a regulator of endocannabinoid signaling pathways (PubMed:22969151, PubMed:24027063). Has a strong preference for very-long-chain lipid substrates, substrate

Target Details

specificity is likely due to improved catalysis and not improved substrate binding (PubMed:30237167). {ECO:0000250|UniProtKB:Q99LR1, ECO:0000269|PubMed:22969151, ECO:0000269|PubMed:24027063, ECO:0000269|PubMed:25290914, ECO:0000269|PubMed:30237167, ECO:0000269|PubMed:30420694, ECO:0000269|PubMed:30643283, ECO:0000269|PubMed:30720278}.

Molecular Weight: 45.1 kDa

UniProt: [Q8N2K0](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months