

Datasheet for ABIN7551823
ABHD2 Protein (AA 1-425) (His tag)



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Overview

Quantity:	1 mg
Target:	ABHD2
Protein Characteristics:	AA 1-425
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABHD2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ABHD2 Protein expressed in mammalian cells.
Sequence:	<p>MNAMLETPEL PAVFDGVKLA AVAAVLYVIV RCLNLKSPTA PPDLYFQDSG LSRFLLKSCP LLTKEYIPPL IWGKSGHIQT ALYGKMGRVR SPHPYGHRKF ITMSDGATST FDLFEPLAEH CVGDDITMVI CPGIANHSEK QYIRTFVDYA QKNGYRCAVL NHLGALPNIE LTSPRMFTYG CTWEFGAMVN YIKKTYPLTQ LVVVGFSLGG NIVCKYLGET QANQEKVLCV VSVQCQYSAL RAQETFMQWD QCRRFYNFLM ADNMKKIILS HRQALFGDHV KKPQSLEDTD LSRLYTATSL MQIDDNVMRK FHGYNSLKEY YEEESCMRYL HRIYVPLMLV NAADDPLVHE SLLTIPKSL EKRENVMFVL PLHGGHLGFF EGSVLFPEPL TWMDKLVVEY ANAICQWERN KLQCSDEQV EADLE 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.</p>
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:

ABHD2

Alternative Name:

ABHD2 ([ABHD2 Products](#))

Background:

Monoacylglycerol lipase ABHD2 (EC 3.1.1.23) (2-arachidonoylglycerol hydrolase) (Abhydrolase domain-containing protein 2) (Acetylesterase) (EC 3.1.1.6) (Lung alpha/beta hydrolase 2) (Progesterone-sensitive lipase) (EC 3.1.1.79) (Protein PHPS1-2),FUNCTION: Progesterone-dependent acylglycerol lipase that catalyzes hydrolysis of endocannabinoid arachidonoylglycerol (AG) from cell membrane (PubMed:26989199). Acts as a progesterone receptor: progesterone-binding activates the acylglycerol lipase activity, mediating degradation of 1-arachidonoylglycerol (1AG) and 2-arachidonoylglycerol (2AG) to glycerol and arachidonic acid (AA) (PubMed:26989199). Also displays an ester hydrolase activity against acetyl ester, butanoate ester and hexadecanoate ester (PubMed:27247428). Plays a key role in sperm capacitation in response to progesterone by mediating degradation of 2AG, an inhibitor of the sperm calcium channel CatSper, leading to calcium influx via CatSper and sperm activation (PubMed:26989199). May also play a role in smooth muscle cells migration (By similarity). {ECO:0000250|UniProtKB:Q9QXM0, ECO:0000269|PubMed:26989199,

Target Details

ECO:0000269|PubMed:27247428}.

Molecular Weight: 48.3 kDa

UniProt: [P08910](#)

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