Datasheet for ABIN7558617

NAPEPLD Protein (AA 1-396) (His tag)

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Overview

Quantity:	1 mg
Target:	NAPEPLD
Protein Characteristics:	AA 1-396
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NAPEPLD protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Napepld Protein expressed in mammalian cells.
Sequence:	MDEYEDSQSP APSYQYPKET LRKRQNSVQN SGGSVSSRFS RKSFKLDYRL EEDVTKSKKG KDGRFVNPWP TWKNISIPNV LRWLIMEKNH SGVPGSKEEL DKELPVLKPY FVSDPEDAGV REAGLRVTWL GHATLMVEMD ELIFLTDPMF SSRASPSQYM GPKRFRRPPC TISELPTIDA VLISHNHYDH LDYGSVLALN ERFGSELRWF VPLGLLDWMQ KCGCENVIEL DWWEENCVPG HDKVTFVFTP SQHWCKRTLL DDNKVLWGSW SVLGPWSRFF FAGDTGYCPA FEEIGKRFGP FDLAAIPIGA YEPRWFMKYQ HADPEDAVRI HIDLQTKRSV AIHWGTFALA NEHYLEPPVK LNEALERYGL SCEDFFILKH GESRYLNTDD RAFEET **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:	NAPEPLD
Alternative Name:	Napepld (NAPEPLD Products)
Background:	N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D (N-acyl phosphatidylethanolamine phospholipase D) (NAPE-PLD) (NAPE-hydrolyzing phospholipase D) (EC 3.1.4.54),FUNCTION: D-type phospholipase that hydrolyzes N-acyl-phosphatidylethanolamines (NAPEs) to produce bioactive N-acylethanolamines/fatty acid ethanolamides (NAEs/FAEs) and phosphatidic acid (PubMed:14634025, PubMed:15760304, PubMed:17655883, PubMed:21801852). Cleaves the terminal phosphodiester bond of diacyl- and alkenylacyl-NAPEs, primarily playing a role in the generation of long-chain saturated and monounsaturated NAEs in the brain (PubMed:21801852, PubMed:16605240). May control NAPE homeostasis in dopaminergic neuron membranes and regulate neuron survival, partly through RAC1 activation (PubMed:31685899). As a regulator of lipid metabolism in the adipose tissue, mediates the crosstalk between adipocytes, gut microbiota and immune cells to control body temperature and weight. In particular, regulates energy homeostasis by promoting cold-induced brown or beige adipocyte differentiation program to generate heat from fatty acids and

Target Details

	glucose (PubMed:25757720). Has limited D-type phospholipase activity toward N-acyl lyso-NAPEs (PubMed:14634025). {ECO:0000269|PubMed:14634025, ECO:0000269|PubMed:15760304, ECO:0000269|PubMed:16605240, ECO:0000269|PubMed:17655883, ECO:0000269|PubMed:21801852, ECO:0000269|PubMed:25757720, ECO:0000269|PubMed:31685899}.
Molecular Weight:	45.8 kDa
UniProt:	Q8BH82

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

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