

Datasheet for ABIN7559480

PNPLA8 Protein (AA 1-776) (His tag)



Overview

Quantity:	1 mg
Target:	PNPLA8
Protein Characteristics:	AA 1-776
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNPLA8 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Pnpla8 Protein expressed in mammalian cells.
Sequence:	MSINLTLDIY IYFLNNARSL CGKQRSKQLH FVCSKQYWRM NHVNVHREFH TSKKSCKWNR
	SEAHCSKHWH SPSNHGLHFG IVRLSTSAPK GLTKVSIHMS RIKSTLNSVS KAIFGSQNEM
	VTRLAQFKPS SRILRKVSDK GWLKQKNVKQ AVESLKNYSD KSAGKNSLAE QKSYFADKEE
	DSGKHSLFHY TYGITTRFGE SFSVLANHIN SYFKSKGKMS QTKEDKQLQD KPDLEERKSS
	SPGPDTVADR PDSESPLEVK DKLSSPTQMP EAHPVSAKQS IANFLSRPTE GVQALVGGYI
	GGLVPKLKSD PKSPPEEQEV SAKTEQAVNK DKKAEEKKRV LLQQEKIIAR VSIDNRTRAL
	VQALRRTADP KLCITRVEEL TFHLLEFPEG KGVAIKEKII PYLLRLRQVK DETLQAAVRE
	ILALIGYVDP VKGRGIRILT IDGGGTRGVV ALQTLRKLVE LTQKPIHQLF DYICGVSTGA
	ILAFMLGLFH MPLDECEELY RKLGSDVFTQ NVIVGTVKMS WSHAFYDSNT WEKILKDRIG
	SALMIETARN PACPKVAAIS TIVNRGQTPK AFVFRNYGHF PGTNSHYLGG CQYKMWQAIR
	ASSAAPGYFA EYALGSDLHQ DGGLLLNNPS ALALHECKCI WPDTPLECIV SLGTGRYESD
	VRNTSTYTSL KTKLSNVISS ATDTEEVHIM LDGLLPSDTY FRFNPVICEN IPLDESRDEK

	LDQLQLEGMK YIERNDQKMK KVAKILSQEK TTLQKINDWI KLKSDMYEGL PFFSKL 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.
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 protain is a made to order protein and will be made for the first time for your order. Our
	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.
	experte in the lab try to choose that you receive coloure 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:	PNPLA8
Alternative Name:	Pnpla8 (PNPLA8 Products)
Background:	Calcium-independent phospholipase A2-gamma (EC 3.1.1) (EC 3.1.1.5) (Intracellular
	membrane-associated calcium-independent phospholipase A2 gamma) (iPLA2-gamma)
	(Patatin-like phospholipase domain-containing protein 8),FUNCTION: Calcium-independent and
	membrane-bound phospholipase, that catalyzes the esterolytic cleavage of fatty acids from
	glycerophospholipids to yield free fatty acids and lysophospholipids, hence regulating

(PubMed:17923475, PubMed:28442572). Hydrolyzes phosphatidylethanolamine,

phosphatidylcholine and probably phosphatidylinositol with a possible preference for the former. Has also a broad substrate specificity in terms of fatty acid moieties, hydrolyzing saturated and mono-unsaturated fatty acids at nearly equal rates from either the sn-1 or sn-2 position in diacyl phosphatidylcholine. However, has a weak activity toward polyunsaturated fatty acids at the sn-2 position, and thereby favors the production of 2-arachidonoyl lysophosphatidylcholine, a key branch point metabolite in eicosanoid signaling. On the other hand, can produce arachidonic acid from the sn-1 position of diacyl phospholipid and from the sn-2 position of arachidonate-containing plasmalogen substrates. Therefore, plays an important role in the mobilization of arachidonic acid in response to cellular stimuli and the generation of lipid second messengers. Can also hydrolyze lysophosphatidylcholine (By similarity). In the mitochondrial compartment, catalyzes the hydrolysis and release of oxidized aliphatic chains from cardiolipin and integrates mitochondrial bioenergetics and signaling. It is essential for maintaining efficient bioenergetic mitochondrial function through tailoring mitochondrial membrane lipid metabolism and composition (PubMed:17923475, PubMed:28442572). {ECO:0000250|UniProtKB:Q9NP80, ECO:0000269|PubMed:17923475, ECO:0000269|PubMed:28442572}.

Molecular Weight: 87.4 kDa

Q8K1N1

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

UniProt:

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