

Datasheet for ABIN7550873

PNPLA1 Protein (AA 1-532) (His tag)



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Overview

Quantity:	1 mg
Target:	PNPLA1
Protein Characteristics:	AA 1-532
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNPLA1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PNPLA1 Protein expressed in mammalian cells.
Sequence:	<p>MEEQVFKGDP DTPHSISFSG SGFLSFYQAG AVDALRDLAP RMLETAHRFA GTSAGAVIAA LAICGIEMDE YLRVLNVGVA EVKKSFLGPL SPSCKMVQMM RQFLYRVLPE DSYKVTTGKL HVS LTRLTDG ENVVVSEFTS KEELIEALYC SCFVPVYCGI IPPTYRGVRY IDGGFTGMQP CAFWTDAITI STFSGQQDIC PRDCPAIFHD FRMFNCSFQF SLENIARMTH ALFPPDLVIL HDYYYRGYED AVLYLRRLNA VYLNSSSKRV IFPRVEVYCQ IELALGNECP ERSQPSLRAR QASLEGATQP HKEWVPKGDG RGSHPVPSQ PVQTLEFTCE SPVSAPVSPL EQPPAQPLAS STPLSLSGMP PVSFPAVHKP PSSTPGSSLP TPPPGLSPLS PQQVQPSGS PARSLHSQAP TSPRPSLGPS TVGAPQTLPR SLSAFPAQP PVEELGQEQP QAVALLVSSK PKSAVPLVHV KETVSKPYVT ESPAEDSNWV NKVFKNKQK TSGTRKGFPR HSGSKKPSSK VQ 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>

Product Details

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	PNPLA1
Alternative Name:	PNPLA1 (PNPLA1 Products)
Background:	<p>Omega-hydroxyceramide transacylase (EC 2.3.1.296) (Patatin-like phospholipase domain-containing protein 1),FUNCTION: Omega-hydroxyceramide transacylase involved in the synthesis of omega-O-acylceramides (esterified omega-hydroxyacyl-sphingosine, EOS), which are extremely hydrophobic lipids involved in skin barrier formation (PubMed:27751867, PubMed:28248318). Catalyzes the last step of the synthesis of omega-O-acylceramides by transferring linoleic acid from triglycerides to an omega-hydroxyceramide (PubMed:27751867, PubMed:28248318). Omega-O-acylceramides, are required for the biogenesis of lipid lamellae in the stratum corneum and the formation of the cornified lipid envelope which are essential for the epidermis barrier function (PubMed:22246504, PubMed:27751867, PubMed:28248318).</p> <p>These lipids also play a role in keratinocyte differentiation (By similarity). May also act on omega-hydroxylated ultra-long chain fatty acids (omega-OH ULCFA) and</p>

Target Details

acylglycerolceramides (GlcEOS) (By similarity). {ECO:0000250|UniProtKB:Q3V1D5, ECO:0000269|PubMed:22246504, ECO:0000269|PubMed:27751867, ECO:0000269|PubMed:28248318}.

Molecular Weight: 57.9 kDa

UniProt: [Q8N8W4](#)

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