

Datasheet for ABIN7562579

ALOX12B Protein (AA 1-701) (His tag)



Overview

Quantity:	1 mg
Target:	ALOX12B
Protein Characteristics:	AA 1-701
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALOX12B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Purpose:	Custom-made recombinat Alox12b Protein expressed in mammalien cells.
Sequence:	MATYKVKVAT GTDFFSGTLD SISLTIVGTQ GESHKQRLNH FGRDFATGAV DDYTVQCQQD
	LGELIIIRLH KEPHSFLAKD PWYCNYVQIC APDCRVYHFP AYQWMDGYET LALREATGKI
	TADDTLPILL EHRQEEIRAK KDFYHWRVFV PGLPNYVDIP SYHPPPRRCR NPNRPEWDGY
	IPGFPILINI KATRFLNSNL RFSFVKTASF FYRLGPMALA FKLRGLVDRK RSWKRLKDIK
	NIFPATKSVV SEYVAEHWTE DSFFGYQYLN GINPGLIRRC TQIPDKFPVT DEMVAPFLGE
	GTCLQAELER GNIYLADYRI LDGIPTVELN GQQQHHCAPM CLLHFGPDGN MMPIAIQLSQ
	TPGPDCPIFL PNDSEWDWLL AKTWVRYAEF YSHEAVAHLL ESHLIGEAFC LALLRNLPMC
	HPLYKLLIPH TRYNVQINSI GRALLLNKGG LSARAMSLGL EGFAQVMVRG LSELTYKSLC
	IPNDFVERGV QDLPGYYFRD DSLAVWYAME RYVTEIITYY YPNDAAVEGD PELQCWVQEI
	FKECLLGRES SGFPTCLRTI PELIEYVTMV MYTCSARHAA VNSGQLEYTS WMPNFPSSMR
	NPPMQTKGLT TLQTYMDTLP DVKTTCIVLL VLWTLCREPD DRRPLGHFPD IHFVEEGPRR

SIEAFRQNLN QISHNIRQRN KCLTLPYYYL DPVLIENSIS I 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.

Characteristics:

Key Benefits:

- · Made to order protein from design to production by highly experienced protein experts.
- Protein expressed in mammalien 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, Western Blot

Grade:

custom-made

Target Details

Target:	ALOX12B
Alternative Name:	Alox12b (ALOX12B Products)
Background:	Arachidonate 12-lipoxygenase, 12R-type (12R-LOX) (12R-lipoxygenase) (EC 1.13.11) (Epidermis-type lipoxygenase 12) (Epidermis-type lipoxygenase 2) (e-LOX 2),FUNCTION: Catalyzes the regio and stereo-specific incorporation of a single molecule of dioxygen into free and esterified polyunsaturated fatty acids generating lipid hydroperoxides that can be further

crucial step in the conjugation of omega-hydroxyceramide to membrane proteins. Therefore

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reduced to the corresponding hydroxy species (PubMed:16129665). Does not convert

arachidonic acid to (12R)-hydroperoxyeicosatetraenoic acid/(12R)-HPETE (PubMed:10100631, PubMed:11256953). In the skin, acts upstream of ALOXE3 on the lineolate moiety of esterified

omega-hydroxyacyl-sphingosine (EOS) ceramides to produce an epoxy-ketone derivative, a

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	plays a crucial role in the synthesis of corneocytes lipid envelope and the establishment of the skin barrier to water loss (PubMed:17403930, PubMed:17429434, PubMed:21558561). May also play a role in the regulation of the expression of airway mucins (By similarity). {ECO:0000250 UniProtKB:075342, ECO:0000269 PubMed:10100631, ECO:0000269 PubMed:11256953, ECO:0000269 PubMed:16129665, ECO:0000269 PubMed:17403930, ECO:0000269 PubMed:17429434, ECO:0000269 PubMed:21558561}.
Molecular Weight:	80.6 kDa
UniProt:	070582
Pathways:	Cell-Cell Junction Organization
Application Details	
Application Notes: Restrictions:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. 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