

Datasheet for ABIN7554494 ALOX12B Protein (AA 1-701) (His tag)



Overview

Quantity:	1 mg
Target:	ALOX12B
Protein Characteristics:	AA 1-701
Origin:	Human
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:	MATYKVRVAT GTDLLSGTRD SISLTIVGTQ GESHKQLLNH FGRDFATGAV GQYTVQCPQD
	LGELIIIRLH KERYAFFPKD PWYCNYVQIC APNGRIYHFP AYQWMDGYET LALREATGKT
	TADDSLPVLL EHRKEEIRAK QDFYHWRVFL PGLPSYVHIP SYRPPVRRHR NPNRPEWNGY
	IPGFPILINF KATKFLNLNL RYSFLKTASF FVRLGPMALA FKVRGLLDCK HSWKRLKDIR
	KIFPGKKSVV SEYVAEHWAE DTFFGYQYLN GVNPGLIRRC TRIPDKFPVT DDMVAPFLGE
	GTCLQAELEK GNIYLADYRI MEGIPTVELS GRKQHHCAPL CLLHFGPEGK MMPIAIQLSQ
	TPGPDCPIFL PSDSEWDWLL AKTWVRYAEF YSHEAIAHLL ETHLIAEAFC LALLRNLPMC
	HPLYKLLIPH TRYTVQINSI GRAVLLNEGG LSAKGMSLGV EGFAGVMVRA LSELTYDSLY
	LPNDFVERGV QDLPGYYYRD DSLAVWNALE KYVTEIITYY YPSDAAVEGD PELQSWVQEI
	FKECLLGRES SGFPRCLRTV PELIRYVTIV IYTCSAKHAA VNTGQMEFTA WMPNFPASMR
	NPPIQTKGLT TLETFMDTLP DVKTTCITLL VLWTLSREPD DRRPLGHFPD IHFVEEAPRR

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	SIEAFRQRLN QISHDIRQRN KCLPIPYYYL 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),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 reduced to the corresponding hydroxy
	species (PubMed:9837935, PubMed:9618483, PubMed:21558561). 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 crucial step in the conjugation of omega-
	hydroxyceramide to membrane proteins (PubMed:21558561). Therefore plays a crucial role in
	the synthesis of corneocytes lipid envelope and the establishment of the skin barrier to water

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Target Details

	loss (PubMed:21558561). May also play a role in the regulation of the expression of airway mucins (PubMed:22441738). {ECO:0000269 PubMed:21558561, ECO:0000269 PubMed:22441738, ECO:0000269 PubMed:9618483, ECO:0000269 PubMed:9837935}.
Molecular Weight:	80.4 kDa
UniProt:	075342
Pathways:	Cell-Cell Junction Organization
Application Details	
Application Notes:	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.
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