

# Datasheet for ABIN7562390 ALOX8/8-LOX Protein (AA 1-677) (His tag)



Overview

Quantity:	1 mg
Target:	ALOX8/8-LOX (ALOX8)
Protein Characteristics:	AA 1-677
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALOX8/8-LOX protein is labelled with His tag.

#### Product Details

Purpose:	Custom-made recombinant Alox8 Protein expressed in mammalian cells.
Sequence:	MAKCRVRVST GEACGAGTWD KVSVSIVGTH GESPLVPLDH LGKEFSAGAE EDFEVTLPQD
	VGTVLMLRVH KAPPEVSLPL MSFRSDAWFC RWFELEWLPG AALHFPCYQW LEGAGELVLR
	EGAAKVSWQD HHPTLQDQRQ KELESRQKMY SWKTYIEGWP RCLDHETVKD LDLNIKYSAM
	KNAKLFFKAH SAYTELKVKG LLDRTGLWRS LREMRRLFNF RKTPAAEYVF AHWQEDAFFA
	SQFLNGINPV LIRRCHSLPN NFPVTDEMVA PVLGPGTSLQ AELEKGSLFL VDHGILSGVH
	TNILNGKPQF SAAPMTLLHQ SSGSGPLLPI AIQLKQTPGP DNPIFLPSDD TWDWLLAKTW
	VRNSEFYIHE AVTHLLHAHL IPEVFALATL RQLPRCHPLF KLLIPHIRYT LHINTLAREL
	LVAPGKLIDK STGLGTGGFS DLIKRNMEQL NYSVLCLPED IRARGVEDIP GYYYRDDGMQ
	IWGAIKSFVS EIVSIYYPSD TSVQDDQELQ AWVREIFSEG FLGRESSGMP SLLDTREALV
	QYITMVIFTC SAKHAAVSSG QFDSCVWMPN LPPTMQLPPP TSKGQARPES FIATLPAVNS
	SSYHIIALWL LSAEPGDQRP LGHYPDEHFT EDAPRRSVAA FQRKLIQISK GIRERNRGLA
	LPYTYLDPPL IENSVSI Sequence without tag. The proposed Purification-Tag is based on

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	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
	<ul> <li>The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li> </ul>
	• 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:	ALOX8/8-LOX (ALOX8)
Alternative Name:	Alox8 (ALOX8 Products)
Background:	Polyunsaturated fatty acid lipoxygenase ALOX8 (15-lipoxygenase 2) (15-LOX-2) (Arachidonate
	15-lipoxygenase B) (15-LOX-B) (Arachidonate 8S-lipoxygenase) (8-LOX) (8S-LOX) (EC 1.13.11)
	(Linoleate 9S-lipoxygenase ALOX8) (EC 1.13.11.58),FUNCTION: Non-heme iron-containing
	dioxygenase that catalyzes the stereo-specific peroxidation of free and esterified
	polyunsaturated fatty acids generating a spectrum of bioactive lipid mediators
	(PubMed:9305900, PubMed:10965849, PubMed:10625675, PubMed:16143298,
	PubMed:16112079, PubMed:15558016, PubMed:27435673). Catalyzes the peroxidation of
	arachidonate and linoleate into (8S)-HPETE and (9S)-HPODE respectively (PubMed:9305900,
	PubMed:10965849, PubMed:10625675, PubMed:16143298, PubMed:16112079,

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Molecular Weight:	76.2 kDa
	ECO:0000269 PubMed:27435673, ECO:0000269 PubMed:9305900}.
	ECO:0000269 PubMed:16112079, ECO:0000269 PubMed:16143298,
	EC0:0000269 PubMed:10965849, EC0:0000269 PubMed:15558016,
	activated receptor signaling pathway (PubMed:10965849). {ECO:0000269 PubMed:10625675,
	May play a role in keratinocyte differentiation through activation of the peroxisome proliferator
	May also catalyze (15S)-HPETE peroxidation to produce 8,15-diHPETE (PubMed:16112079).
	phospholipid-esterified 15-HpETE (PubMed:27435673, PubMed:16112079, PubMed:16143298).
	oxidizes directly arachidonic acid esterified to membrane-bound phospholipids to produce a
	have a 15S-lipoxygenase activity with (8S)-HPETE to produce (8S,15S)-diHPETE and when
	PubMed:16143298, PubMed:15558016, PubMed:10965849, PubMed:9305900). However may
	activity and only displays a 8S-lipoxygenase activity (PubMed:10625675, PubMed:16112079,
	PubMed:27435673). With free arachidonate as substrate, has no detectable 15S-lipoxygenase
	include leukotriene A4 and 8,15-diHPETE (PubMed:16143298, PubMed:16112079,
	polyunsaturated fatty acids and minor products derived from (8S)-HPETE itself that may
	arachidonic acid (AA), may produce other HETE isomers from phospholipid-esterified
	PubMed:15558016, PubMed:27435673). In addition to generate (8S)-HPETE from free

Molecular Weight:	76.2 kDa
UniProt:	035936

## 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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