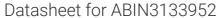
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# ALOX15 Protein (AA 2-663) (His tag)



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#### Overview

Quantity:	1 mg
Target:	ALOX15
Protein Characteristics:	AA 2-663
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALOX15 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### **Product Details**

Sequence:

GVYRIRVSTG DSVYAGSNNE VYLWLIGQHG EASLGKLFRP CRNSEAEFKV DVSEYLGPLL
FVRVQKWHYL KEDAWFCNWI SVKGPGDQGS EYTFPCYRWV QGTSILNLPE GTGCTVVEDS
QGLFRNHREE ELEERRSLYR WGNWKDGTIL NVAATSISDL PVDQRFREDK RLEFEASQVL
GTMDTVINFP KNTVTCWKSL DDFNYVFKSG HTKMAERVRN SWKEDAFFGY QFLNGANPMV
LKRSTCLPAR LVFPPGMEKL QAQLDEELKK GTLFEADFFL LDGIKANVIL CSQQYLAAPL
VMLKLQPDGQ LLPIAIQLEL PKTGSTPPPI FTPLDPPMDW LLAKCWVRSS DLQLHELQAH
LLRGHLVAEV FAVATMRCLP SVHPVFKLLV PHLLYTMEIN VRARSDLISE RGFFDKVMST
GGGGHLDLLK QAGAFLTYSS LCPPDDLAER GLLDIDTCFY AKDALQLWQV MNRYVVGMFD
LYYKTDQAVQ DDYELQSWCQ EITEIGLQGA QDRGFPTSLQ SRAQACHFIT MCIFTCTAQH
SSIHLGQLDW FYWVPNAPCT MRLPPPKTKD ATMEKLMATL PNPNQSTLQI NVVWLLGRRQ
AVMVPLGQHS EEHFPNPEAK AVLKKFREEL AALDKEIEIR NKSLDIPYEY LRPSLVENSV AI

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

# **Product Details** special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Mouse Alox15 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein. Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and

Western blot.

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: 0.22 µm filtered Sterility: Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade

### **Target Details**

Target:	ALOX15
Alternative Name:	Alox15 (ALOX15 Products)
Background:	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.
	Converts arachidonic acid into 12-hydroperoxyeicosatetraenoic acid/12-HPETE and 15-
	hydroperoxyeicosatetraenoic acid/15-HPETE. Also converts linoleic acid to 13-
	hydroperoxyoctadecadienoic acid. May also act on (12S)-hydroperoxyeicosatetraenoic
	acid/(12S)-HPETE to produce hepoxilin A3. Probably plays an important role in the immune and
	inflammatory responses. Through the oxygenation of membrane-bound
	phosphatidylethanolamine in macrophages may favor clearance of apoptotic cells during
	inflammation by resident macrophages and prevent an autoimmune response associated with
	the clearance of apoptotic cells by inflammatory monocytes. In parallel, may regulate actin
	polymerization which is crucial for several biological processes, including macrophage
	function. May also regulate macrophage function through regulation of the peroxisome
	proliferator activated receptor signaling pathway. Finally, it is also involved in the cellular
	response to IL13/interleukin-13. In addition to its role in the immune and inflammatory
	responses, may play a role in epithelial wound healing in the cornea maybe through production
	of lipoxin A4. May also play a role in endoplasmic reticulum stress response and the regulation
	of bone mass. {ECO:0000269 PubMed:10432118, ECO:0000269 PubMed:11278875,
	ECO:0000269 PubMed:14716014, ECO:0000269 PubMed:15708862,
	ECO:0000269 PubMed:22215650, ECO:0000269 PubMed:22503541}.
Molecular Weight:	76.3 kDa Including tag.
UniProt:	P39654
Pathways:	Regulation of Actin Filament Polymerization
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.

## **Application Details**

Expiry Date:

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Unlimited (if stored properly)