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ALOX12 Protein (AA 1-663) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	ALOX12
Protein Characteristics:	AA 1-663
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALOX12 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MGRYRVRVVT GAWLFSGSLN LVRLWLVGEH REAKLELQLR PARGKEEEFD FDVPEDLGPL
QFVKLHKQHT VVDDAWFCNL ITVQGPGTSA EAVFPCYRWV QGEGILSLPE GTARLAGDNA
LDVFQKYREK ELKERQQTYC WATWKEGLPQ TIAADCKDDL PPNMRFHEEK RLDFEWTLKA
GVLEMGLKRV YTLLRSWNHL EDFDQIFWGQ KSALAEKVHQ CWQEDELFGY QFLNGANPML
LRRSTSLPSR LVLPSGMEEL QAQLEKELKN GSLFEADFIL LDGIPANVIR GEPQYLAAPL
VMLRMDPGGK LLPMAIQIQP PNPSSPAPTL FLPSDPPLAW LLAKIWVRNS DFQLQELQFH
LLNTHLVAEV IAVATMRCLP GLHPIFKLLV PHIRYTMEIN TRSRTQLISD GGIFDQVVST
GGGGHVQLLT RAVAQLTYHS LCPPDDLANR GLLRIPSALY ARDALQLWEV TARYVKGMVH
LFYQSDDIVR GDPELQAWCR EITEVGLCHA QDRGFPVSFQ SRAQLCHFLT MCVFTCTAQH
AAINQGQLDW YGWVPNAPCT MRMPPPTSKD DVTMETVMGS LPDVQKACLQ MTITWHLGRL
QPDMVPLGHH TEKYFSDPRT KAVLSQFQAD LDNLEKEITA RNEQLDLPYE YLKPSRIENS ITI

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 Alox12 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.

Sterility:

Purity:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	ALOX12
Alternative Name:	Alox12 (ALOX12 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.
	Mainly converts arachidonic acid to (12S)-hydroperoxyeicosatetraenoic acid/(12S)-HPETE but
	can also metabolize linoleic acid. Has a dual activity since it also converts leukotriene A4/LTA4
	into both the bioactive lipoxin A4/LXA4 and lipoxin B4/LXB4. Through the production of specific
	bioactive lipids like (12S)-HPETE it regulates different biological processes including platelet
	activation. It also probably positively regulates angiogenesis through regulation of the
	expression of the vascular endothelial growth factor. Plays a role in apoptotic process,
	promoting the survival of vascular smooth muscle cells for instance. May also play a role in the
	control of cell migration and proliferation. {ECO:0000269 PubMed:9501222}.
Molecular Weight:	76.3 kDa Including tag.
UniProt:	P39655
Pathways:	Positive Regulation of Endopeptidase Activity
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.
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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

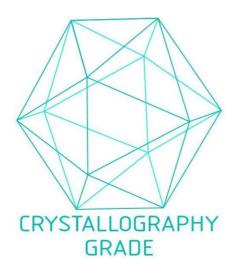


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process