

Recombinant Full Length Human ALOX5 Protein

Cat. No. ALOX5-21HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human 5 Lipoxygenase with N terminal proprietary tag; Predicted MWt 100.21 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	674 amino acids
Description	This gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to 5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-eicosatetraenoic acid (leukotriene A₄). Leukotrienes are important mediators of a number of inflammatory and allergic conditions. Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma and may also be associated with atherosclerosis and several cancers. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined.
Form	Liquid
Molecular Mass	100.210kDa inclusive of tags
AA Sequence	MPSYTVTVAT GSQWFAGTDD YIYLSLVGSA GCSEKHLLDK PFYNDFERGA

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VDSYDVTVDE ELGEIQLVRI EKRKYWLND D WYLKYITLKT PHGDYIEFPC
 YRWITGDVEV VLRDGRAKLA RDDQIHILKQ HRRKELETRQ KQYRWMEWNP
 GFPLSIDAKC HKDLPRDIQF DSEKGVDFVL NYSKAMENLF INRFMHMFQS
 SWNDFADFEK IFVKISNTIS ERVMNHWQED LMFGYQFLNG CNPVLIRRCT
 ELPEKLPVTT EMVECSLERQ LSLEQEVQQG NIFIVDFELL DGIDANKTDP
 CTLQFLAAPI CLLYKNLANK IVPIAIQLNQ IPGDENPIFL PSDAKYDWLL
 AKIWVRSSDF HVHQTITHLL RTHLVSEVFG IAMYRQLPAV HPIFKLLVAH
 VRFTIAINTK AREQLICECG LFDKANATGG GGHVQMVQRA MKDLTYASLC
 FPEAIKARGM ESKEDIPYYF YRDDGLLVWE AIRTFTAEEV DIYYEGDQVV
 EEDPELQDFV NDVYVYGMRG RKSSGFPKSV KSREQLSEYL TVVIFTASQA
 HAAVNFGQYD WCSWIPNAPP TMRAPPPTAK GVVITIEQIVD TLPDRGRSCW
 HLGAVWALSQ FQENELFLGM YPEEHFIEKP VKEAMARFRK NLEAIVSVIA
 ERNKKKQLPY YYLSPDRIPN SVAI

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.

GENE INFORMATION

Gene Name [ALOX5 arachidonate 5-lipoxygenase \[Homo sapiens \]](#)

Official Symbol [ALOX5](#)

Synonyms ALOX5; arachidonate 5-lipoxygenase; 5 LOX

Gene ID [240](#)

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mRNA Refseq	NM_000698
Protein Refseq	NP_000689
MIM	152390
UniProt ID	P09917

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