

Recombinant Full Length Human ALOXE3 Protein, GST-tagged

Cat. No. ALOXE3-1485HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALOXE3 full-length ORF (AAI01939.1, 1 a.a. - 711 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	711 amino acids
Description	This gene is a member of the lipoxygenase family, which are catabolized by arachidonic acid-derived compounds. The encoded enzyme is a hydroperoxide isomerase that synthesizes a unique type of epoxy alcohol (8R-hydroxy-11R,12R-epoxyeicosa-5Z,9E,14Z-trienoic acid) from 12R-hydroperoxyeicosatetraenoic acid (12R-HPETE). This epoxy alcohol can activate the nuclear receptor peroxisome proliferator-activated receptor alpha (PPARalpha), which is implicated in epidermal differentiation. Loss of function of the enzyme encoded by this gene results in ichthyosis, implicating the function of this gene in the differentiation of human skin. This gene is part of a cluster of lipoxygenase genes on 17p13.1. Mutations in this gene result in nonbullous congenital ichthyosiform erythroderma (NCIE). Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]
Molecular Mass	106.9 kDa
AA Sequence	MAVYRLCVTT GPYLRAGTLD NISVTLVGTC GESPKQRLDR MGRDFAPGSV QKYKVRCTAE LGELLLLRVH KERYAFFRKD SWYCSRICVT EPDGSVSHFP

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CYQWIEGYCT VELRPGTART ICQDSLPLLL DHRTRELRAR QECYRWKIYA
 PGFPCMDVN SFQEMESDKK FALTKTTTCV DQGDSSGNRY LPGFPMKIDI
 PSLMYMEPNV RYSATKTISL LFNAIPASLG MKLRGLLDRK GSWKKLDDMQ
 NIFWCHKFTT TKYVTEHWCE DHFFGYQYLN GVPVMLHCI SSLPSKLPVT
 NDMVAPLLGQ DTCLQTELER GNIPLADYWI LAEAPTHCLN GRQQYVAAPL
 CLLWLSPQGA LVPLAIQLSQ TPGPDSPIFL PTDSEWDWLL AKTWVRNSEF
 LVHENNTHFL CTHLLCEAFA MATLRQLPLC HPIYKLLPH TRYTLQVNTI
 ARATLLNPEG LVDQVTSIGR QGLIYLMSTG LAHFTYTNFC LPDSLARGV
 LAIPNYHYRD DGLKIWAAIE SFVSEIVGYY YPSDASVQQD SELQAWTGEI
 FAQAFLGRES SGFPSRLCTP GEMVKFLTAI IFNCSAQHAA VNSGQHDFGA
 WMPNAPSSMR QPPPQTKGTT TLKTYLDTLP EVNISCNNLL LFWLVSQEPK
 DQRPLGTYPD EHFTEEAPRR SIAAFQSRLA QISRDIQERN QGLALPYTYL
 DPPLIENSVS I

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[ALOXE3](#) arachidonate lipoxygenase 3 [Homo sapiens]

Official Symbol

[ALOXE3](#)

Synonyms

ALOXE3; arachidonate lipoxygenase 3; hydroperoxide isomerase ALOXE3; e-LOX-3;
 epidermal LOX-3; epidermal lipoxygenase; epidermis-type lipoxygenase 3;
 hydroperoxy icosatetraenoate dehydratase; EC 4.2.1.152; EC 5.4.4.7; ARCI3; E-LOX;

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eLOX3; eLOX-3	
Gene ID	59344
mRNA Refseq	NM_001165960
Protein Refseq	NP_001159432
MIM	607206
UniProt ID	Q9BYJ1

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