

## Recombinant Human ALOXE3 Protein, GST-tagged

Cat. No. ALOXE3-489H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human ALOXE3 full-length ORF ( AAI01939.1, 1 a.a. - 711 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	<p>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]</p>
<b>Molecular Mass</b>	106.9 kDa
<b>AA Sequence</b>	MAVYRLCVTTGPYLRAGTLDNISVTLVGTCGESPKQRLDRMGRDFAPGSVQKYKVR CTAELGELLLLVRVHKERYAFFRKDSWYCSRICVTEPDGVSVSHFPCYQWIEGYCTVEL RPGTARTICQDSLPLLLDHRTRELRARQECYRWKIYAPGFPCMVDVNSFQEMESDK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KFALTKTTTCVDQGDSSGNRYLPGFPMKIDIPSLMYMEPNVRYSATKTIISLLFNAIPA  
 SLGMKLRGLLDRKGSWKLLDDMQNIFWCHKTFFTTKYVTEHWCEDHFFGYQYLNGV  
 NPVMLHCISLPSKLPVTNDMVAPLLGQDTCLQTELERGNIFLADYWILAEAPTHCLN  
 GRQQYVAAPLCLLWLSPQGALVPLAIQLSQTTPGPDSPIFLPTDSEWDWLLAKTWVR  
 NSEFLVHENNTHFLCTHLLCEAFAMATLRQLPLCHPIYKLLPHTRYTLQVNTIARATL  
 LNPEGLVDQVTSIGRQGLIYLMSTGLAHFTYTNFCLPDSLRARGVLAIPNYHYRDDGL  
 KIWAAIESFVSEIVGYYPDSASVQQDSELQAWTGEIFAQAFLGRESSGFPSRLCTP  
 GEMVKFLTAIFNCSAQHAAVNSGQHDFGAWMPNAPSSMRQPPPQTKGTTTLKTYL  
 DTLPEVNISCNLLLLFWLVSQEPKDQRPLGTYPDEHFTEEAPRRSIAAFQSRLAQISR  
 DIQERNQGLALPYTYLDPPLIENSVSI

**Applications**

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

**Notes**

Best use within three months from the date of receipt of this protein.

**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;  
 eLOX3; eLOX-3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID	59344
mRNA Refseq	NM_001165960
Protein Refseq	NP_001159432
MIM	607206
UniProt ID	Q9BYJ1



12.5% SDS-PAGE Stained with Coomassie Blue.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA