

Recombinant Human ALOXE3 Protein, GST-tagged

Cat. No. ALOXE3-489H **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	Wheat Germ
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	MAVYRLCVTTGPYLRAGTLDNISVTLVGTCGESPKQRLDRMGRDFAPGSVQKYKVR CTAELGELLLL RVHKERYAFFRKDSWYCSRICVTEPDGSVSHFPCYQWIEGYCTVEL RPGTARTICQDSLPLLLDHR TRELRARQECYRWKIYAPGFPCMV DVNSFQEMESDK

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KFALTKTTCVDQGDSSGNRYLPGFPMKIDIPSLMYMEPNVRYSATKTISLLFNAIPA
SLGMKLRGLLDRKGSWKKLDDMQNIFWCHKTFSTTKYVTEHWCEDHFFGYQYLNGV
NPVMLHCISLPSKLPVTNDMVAPLLGQDTCLQTELERGNIFLADYWILAEAPTHCLN
GRQQYVAAPLCLLWLSPQGALVPLAIQLSQTGPDSPIFLPTDSEWDWLLAKTWVR
NSEFLVHENNTHFLCTHLLCEAFAMATLRQLPLCHPIYKLLPHTRYTLQVNTIARATL
LNPEGLVDQVTSIGRQGLIYLMSTGLAHFTYTNFCLPDSLRARGVLAIPNYHYRDDGL
KIWAAIESFVSEIVGYYPSPDASVQQDSELQAWTGEIFAQAFLGRESSGFPSRLCTP
GEMVKFLTAIIFNCSAQHAAVNSGQHDFGAWMPNAPSSMRQPPPQTKGTTTLKTYL
DTLPEVNISCNNLLFWLVSQEPKDQRPLGTYPDEHFTEEAPRRSIAAFQSRLAQISR
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

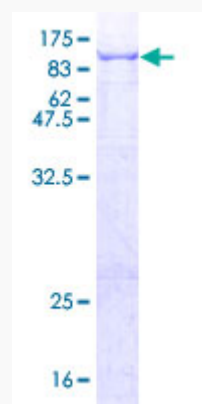
ALOXE3; arachidonate lipoxygenase 3; hydroperoxide isomerase ALOXE3; e-LOX-3;
epidermal LOX-3; epidermal lipoxygenase; epidermis-type lipoxygenase 3;
hydroperoxy icosatetraenoate dehydratase; EC 4.2.1.152; EC 5.4.4.7; ARCI3; E-LOX;
eLOX3; eLOX-3

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



12.5% SDS-PAGE Stained with Coomassie Blue.