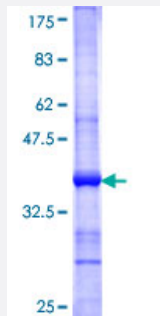


ALOXE3 (Human) Recombinant Protein (Q01)

Catalog # H00059344-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ALOXE3 partial ORF (NP_067641, 1 a.a. - 97 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAVYRLCVTTGPYLRAGTLDNISVTLVGTCGESPKQRLDRMGRDFAPGSVQKYKVRCTAELGELL LLRVHKERYAFFRKDSWYCSRICVTEPDGSVS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.41
Interspecies Antigen Sequence	Mouse (88); Rat (87)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ALOXE3

Entrez GeneID [59344](#)

GeneBank Accession# [NM_021628](#)

Protein Accession# [NP_067641](#)

Gene Name ALOXE3

Gene Alias E-LOX, MGC119694, MGC119695, MGC119696, eLOX3

Gene Description arachidonate lipoxygenase 3

Omim ID [242100 607206](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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

Other Designations epidermal lipoxygenase|lipoxygenase-3

Disease

- [Birth Weight](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Ichthyosiform Erythroderma](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)