

Recombinant Human ALOXE3

Catalog No: #GP11009



Package Size: #GP11009-1 100ug

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human ALOXE3
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 412-711 amino acids of human ALOXE3
Target Name	arachidonate lipoxygenase 3
Other Names	ARCI3; E-LOX; eLOX3; eLOX-3
Accession No.	Swissprot:Q9BYJ1 Gene Accession:BC104724
Uniprot	Q9BYJ1
GeneID	59344;
Storage	-20~-80°C, pH 7.6 PBS

Background

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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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