

Recombinant Human ALOX15B

Cat. No. ALOX15B-26021TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human 15 Lipoxygenase 2 with N terminal proprietary tag, 36.63kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a member of the lipoxygenase family of structurally related nonheme iron dioxygenases involved in the production of fatty acid hydroperoxides. The encoded protein converts arachidonic acid exclusively to 15S-hydroperoxyeicosatetraenoic acid, while metabolizing linoleic acid less effectively. This gene is located in a cluster of related genes and a pseudogene that spans approximately 100 kilobases on the short arm of chromosome 17. Alternatively spliced transcript variants encoding different isoforms have been described.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Expressed in hair, prostate, lung and cornea.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NANFYLQAGSAFAEMKIKGLLDRKGLWRSLNEMKRIFNFRRTPAAEHAFEHWQEDA FFASQFLNGLNPVLIRRCHYLPKNFPVTDAMVASVLGPGTSLQA
Sequence Similarities	Belongs to the lipoxygenase family. Contains 1 lipoxygenase domain. Contains 1 PLAT domain.

GENE INFORMATION

Gene Name	ALOX15B arachidonate 15-lipoxygenase, type B [Homo sapiens]
Official Symbol	ALOX15B
Synonyms	ALOX15B; arachidonate 15-lipoxygenase, type B; arachidonate 15 lipoxygenase, second type; arachidonate 15-lipoxygenase B; 15 LOX 2;
Gene ID	247
mRNA Refseq	NM_001039130
Protein Refseq	NP_001034219
MIM	603697
Uniprot ID	O15296
Chromosome Location	17p13.1

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Pathway

Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Eicosanoid Synthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Selenium Pathway, organism-specific biosystem;

Function

arachidonate 15-lipoxygenase activity; iron ion binding; lipoxygenase activity; metal ion binding; oxidoreductase activity;

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