

Recombinant Human Arachidonate 15-lipoxygenase, Type B, His-tagged

Cat. No. ALOX15B-580H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human arachidonate 15-lipoxygenase, type B is expressed in <i>E. coli</i> with C-terminal His tag. The molecular weight of the recombinant human ALOX15B is 76 kDa.
Species	Human
Source	<i>E. coli</i>
Description	ALOX15B gene encodes a member of the lipoxygenase family of structurally related non-heme 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.
Purity	Greater than 95% as determined by SDS-PAGE.
Concentration	1.0 mg/mL.
Supplied in	PBS, pH 7.4, 1 mM DTT and 20% glycerol.
Storage	-80°C.

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GENE INFORMATION

Gene Name	ALOX15B arachidonate 15-lipoxygenase, type B [Homo sapiens]
Synonyms	arachidonate 15-lipoxygenase, type B; ALOX15B; 15-LOX-2; arachidonate 15-lipoxygenase, second type; 15S-lipoxygenase; 15-lipoxygenase 2; arachidonate 15-lipoxygenase 2; arachidonate omega(6) lipoxygenase; arachidonate 15-lipoxygenase type II
Gene ID	247
mRNA Refseq	NM_001039130
Protein Refseq	NP_001034219
MIM	603697
UniProt ID	O15296
Chromosome Location	17p13.1
Pathway	Arachidonic acid metabolism; Metabolic pathways
Function	arachidonate 15-lipoxygenase activity; iron ion binding; lipoxygenase activity; metal ion binding; oxidoreductase activity

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