

Recombinant Human ALOX15B protein, His & T7-tagged

Cat. No. ALOX15B-6849H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALOX15B aa. (Arg253~Glu490 (Accession # O15296)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg253~Glu490
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.5kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Characteristic	The isoelectric point is 6.6.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	ALOX15B arachidonate 15-lipoxygenase, type B [Homo sapiens (human)]
Official Symbol	ALOX15B
Synonyms	15-LOX-2; 15-LOX-B; 15S-lipoxygenase; arachidonate 15-lipoxygenase 2; arachidonate 15-lipoxygenase type II; arachidonate 15-lipoxygenase, second type; arachidonate omega(6) lipoxygenase; linoleate 13-lipoxygenase 15-LOb; arachidonate 15-lipoxygenase B
Gene ID	247

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mRNA Refseq	NM_001039130.1
Protein Refseq	NP_001034219.1
UniProt ID	O15296

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