

Recombinant Human ALOX5 293 Cell Lysate

Cat. No. ALOX5-8896HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for arachidonate 5-lipoxygenase (ALOX5) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.

Components

This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).

Size 0.1 mg

Storage Instruction

Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[ALOX5 arachidonate 5-lipoxygenase \[Homo sapiens \]](#)

Official Symbol

ALOX5

Synonyms

ALOX5; arachidonate 5-lipoxygenase; 5 LOX; leukotriene A4 synthase; arachidonic acid 5-lipoxygenase; arachidonic 5-lipoxygenase alpha-10 isoform; arachidonic 5-lipoxygenase delta-13 isoform; arachidonic 5-lipoxygenase delta-p10 isoform; arachidonic 5-lipoxygenase delta-10-13 isoform; 5-LO; 5LPG; LOG5; 5-LOX; MGC163204;

Gene ID

[240](#)

mRNA Refseq

[NM_000698](#)

Protein Refseq

[NP_000689](#)

MIM

[152390](#)

UniProt ID

[P09917](#)

Chromosome Location

10q11.2

Pathway

Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Eicosanoid Synthesis, organism-specific

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biosystem; IL-5 Signaling Pathway, organism-specific biosystem; Leukotriene synthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

arachidonate 5-lipoxygenase activity; arachidonate 5-lipoxygenase activity; iron ion binding; lipoxygenase activity; metal ion binding; oxidoreductase activity; protein binding;

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