

Recombinant Rat Alox5 Protein, His-tagged

Cat. No. Alox5-121R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Alox5 Protein (Leu373-Leu535) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Leu373-Leu535
Description	Predicted to enable arachidonate 5-lipoxygenase activity and iron ion binding activity. Involved in several processes, including positive regulation of cytochrome-c oxidase activity; positive regulation of vasoconstriction; and response to hyperoxia. Located in several cellular components, including dendrite; nuclear envelope; and sarcolemma. Used to study several diseases, including brain ischemia; hypertension (multiple); pleurisy; portal hypertension; and pulmonary edema. Biomarker of pulmonary hypertension. Human ortholog(s) of this gene implicated in artery disease (multiple); asthma (multiple); pancreatic cancer; and pulmonary tuberculosis. Orthologous to human ALOX5 (arachidonate 5-lipoxygenase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20 kDa
Purity	> 95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

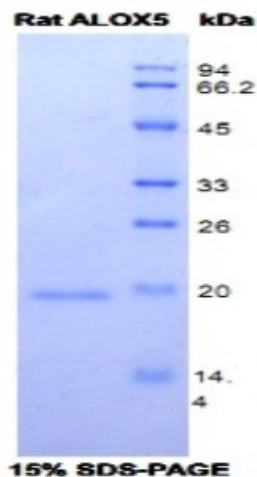
GENE INFORMATION

Gene Name	Alox5 arachidonate 5-lipoxygenase [Rattus norvegicus (Norway rat)]
Official Symbol	Alox5
Synonyms	ALOX5; arachidonate 5-lipoxygenase; 5-LO; 5-lipoxygenase; 5 - Lipoxygenase; LOX5A
Gene ID	25290
mRNA Refseq	NM_012822
Protein Refseq	NP_036954
UniProt ID	P12527

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