

# Recombinant Human LTA4H Protein (His Tag)

Catalog Number:PKSH031715



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

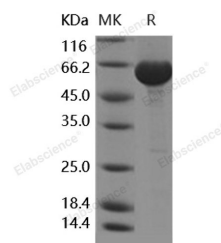
## Description

<b>Synonyms</b>	Leukotriene A-4 hydrolase;LTA-4 hydrolase;Leukotriene A(4) hydrolase;LTA4;LTA4H
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-Asp611
<b>Accession</b>	NP_000886.1
<b>Calculated Molecular Weight</b>	70.7 kDa
<b>Observed molecular weight</b>	58-68 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, Arg-7-amido-4-methylcoumarin(R-AMC). The specific activity is > 15 pmoles/min/μg.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per μg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Leukotriene A-4 hydrolase, also known as LTA-4 hydrolase, Leukotriene A (4) hydrolase, LTA4H and LTA4, is cytoplasm protein which belongs to the peptidase M1 family. LTA4H hydrolyzes an epoxide moiety of leukotriene A4 (LTA-4) to form leukotriene B4 (LTB-4). This enzyme also has some peptidase activity. The leukotrienes (LTs) are a class of structurally related lipid mediators involved in the development and maintenance of inflammatory and allergic

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reactions. In the biosynthesis of LTs, arachidonic acid was converted into the unstable intermediate epoxide LTA<sub>4</sub>, which may in turn be conjugated with glutathione to form the spasmogenic LTC<sub>4</sub>, or hydrolyzed into the proinflammatory lipid mediator LTB<sub>4</sub> in a reaction catalyzed by Leukotriene A<sub>4</sub> hydrolase (LTA<sub>4</sub>H). LTB<sub>4</sub> is a classical chemoattractant of human neutrophils and triggers adherence and aggregation of leukocytes to vascular endothelium, and also modulates immune responses. As a bifunctional zinc metalloenzyme, LTA<sub>4</sub>H also exhibits an anion-dependant arginyl aminopeptidase activity of high efficiency and specificity in addition to its epoxide hydrolase activity. LTA<sub>4</sub>H is regarded as a therapeutic target for inflammation.

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