

Recombinant Human LTA4H Protein (His Tag)

Catalog Number:PKSH031715



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

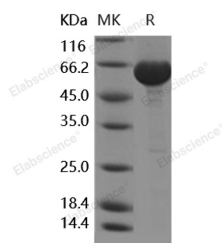
Description

Synonyms	Leukotriene A-4 hydrolase;LTA-4 hydrolase;Leukotriene A(4) hydrolase;LTA4;LTA4H
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Asp611
Accession	NP_000886.1
Calculated Molecular Weight	70.7 kDa
Observed molecular weight	58-68 kDa
Tag	C-His
Bioactivity	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

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	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.
Reconstitution	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 LTA₄, which may in turn be conjugated with glutathione to form the spasmogenic LTC₄, or hydrolyzed into the proinflammatory lipid mediator LTB₄ in a reaction catalyzed by Leukotriene A₄ hydrolase (LTA₄H). LTB₄ 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, LTA₄H also exhibits an anion-dependant arginyl aminopeptidase activity of high efficiency and specificity in addition to its epoxide hydrolase activity. LTA₄H is regarded as a therapeutic target for inflammation.

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