

Datasheet for ABIN7317520 LTC4S Protein (His tag)



Overview

Quantity:	50 µg
Target:	LTC4S
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LTC4S protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human LTC4S/LTC4 synthase Protein (His Tag)
Sequence:	Met 1-Ala 150
Characteristics:	A DNA sequence encoding the human LTC4S (NP_665874.1) (Met 1-Ala 150) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.

Target Details

Target:	LTC4S
Alternative Name:	LTC4S/LTC4 synthase (LTC4S Products)
Background:	Background: Leukotriene C4 synthase, also known as LTC4 synthase, Leukotriene-C(4) synthase, and LTC4S, is a multi-pass membrane protein which belongs to the MAPEG family.
	LTC4S is detected in lung, platelets and the myelogenous leukemia cell line KG-1 (at protein

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/2 | Product datasheet for ABIN7317520 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

lev	vel). LTC4S activity is present in eosinophils, basophils, mast cells, certain phagocytic
m	nononuclear cells, endothelial cells, vascular smooth muscle cells and platelets. LTC4S is
es	ssential for the production of cysteinyl leukotrienes (Cys-LT), critical mediators in asthma.
M	lutagenic analysis of the conjugation function of human LTC4S has identified R51 and Y93 as
cri	itical for acid and base catalysis of LTA4 and reduced glutathione, respectively. A comparison
ac	cross species for proteins that possess LTC4S activity reveals conservation of both of these
res	sidues, whereas R51 is absent in the FLAP molecules. Thus, within the glutathione S-
tra	ansferase superfamily of genes, alignment of specific residues allows the separation of
LT	TC4S family members from their most structurally similar counterparts, the FLAP molecules.
De	efects in LTC4S are the cause of leukotriene C4 synthase deficiency (LTC4 synthase
de	eficiency). LTC4 synthase deficiency is a fatal neurometabolic developmental disorder. It is
as	ssociated with muscular hypotonia, psychomotor retardation, failure to thrive, and
mi	icrocephaly.
Sy	ynonym: LTC4S;MGC33147
Molecular Weight: 17	7 kDa
NCBI Accession: NF	P_665874
Pathways: Ce	ellular Response to Molecule of Bacterial Origin
Application Details	

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Hepes, 0.1 % Triton 0.5 % DOC, 10 % glycerol, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/2 | Product datasheet for ABIN7317520 | 07/25/2024 | Copyright antibodies-online. All rights reserved.