Datasheet for ABIN7318236

CA4 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	CA4
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 4/CA4 Protein (His Tag)
Sequence:	Ala19-Lys283
Characteristics:	Recombinant Human Carbonic Anhydrase 4 is produced by our E.coli expression system and the target gene encoding Ala19-Lys283 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CA4
Alternative Name:	Carbonic Anhydrase 4/CA4 (CA4 Products)
Background:	Background: Carbonic Anhydrase 4 (CA4) belongs to the alpha-carbonic anhydrase family. Alpha-carbonic anhydrase is a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. Carbonic anhydrase 4 is a glycosylphosphatidyl-inositol-anchored

Target Details

	membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Carbonic anhydrase 4 may stimulate the sodium/bicarbonate transporter activity of SLC4A4 that acts in pH homeostasis. It may have a role in inherited renal abnormalities of bicarbonate transport. Furthermore, Carbonic anhydrase 4 is essential for acid overload removal from the retina and retina epithelium and acid release in the choriocapillaris. Synonym: Carbonic Anhydrase 4, Carbonate Dehydratase IV, Carbonic Anhydrase IV, CA-IV, CA4,CAIV,Car4,RP17
Molecular Weight:	31.4 kDa
UniProt:	P22748

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 100 mM NaCl, pH 8.5.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.