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Datasheet for ABIN7194574 CA5A Protein (His tag)

Overview

Quantity:	50 µg
Target:	CA5A
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA5A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CA5A/CA-VA Protein (His Tag)(Active)
Sequence:	Ala 40-Ser 305
Characteristics:	A DNA sequence encoding the mature form of human CA5A (NP_001730.1) (Ala 40-Ser 305) was fused with an Met at N-terminus and a polyhistidine tag at the C-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Measured by its esterase activity. The specific activity is >500 pmoles/min/µg.

Target Details

Target:	CA5A
Alternative Name:	CA5A/CA-VA (CA5A Products)
Background:	Background: Carbonic anhydrase 5A, mitochondrial, also known as Carbonate dehydratase VA,

Target Details

Carbonic anhydrase VA, CA-VA and CA5A, is a member of the alpha-carbonic anhydrase family. Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes first discovered in 1933 that catalyze the reversible hydration of carbon dioxide. CAs participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. CA5A / CA-VA is activated by histamine, L-adrenaline, L- and D-histidine, and L- and D-phenylalanine. It is inhibited by coumarins, sulfonamide derivatives such as acetazolamide and Foscarnet (phosphonoformate trisodium salt).

Synonym: CA5;CA5AD;CA5D;Carbonic Anhydrase VA;CAV;CAVA;GS1-21A4.1

Molecular Weight: 31.6 kDa

NCBI Accession: [NP_001730](#)

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 NaAc, 50 mM NaCl, 0.05 % Brij 35, pH 5.0

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.