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Datasheet for ABIN7317854 CA2 Protein (His tag)



Overview	
Quantity:	100 µg
Target:	CA2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase II/CA2 Protein (His Tag)(Active)
Sequence:	Met 1-Lys 260
Characteristics:	A DNA sequence encoding the human CA2 (NP_000058.1) (Met 1-Lys 260) was expressed, with a polyhistide 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 >150 pmoles/min/µg.

Target Details

Target:	CA2
Alternative Name:	Carbonic Anhydrase II/CA2 (CA2 Products)
Background:	Background: The carbonic anhydrases (or carbonate dehydratases) are classified as

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	metalloenzyme for its zinc ion prosthetic group and form a family of enzymes that catalyze the
	rapid interconversion of carbon dioxide and water to bicarbonate and protons, a reversible
	reaction that takes part in maintaining acid-base balance in blood and other tissues. The
	carbonic anhydrasekl (CA) family consists of at least 11 enzymatically active members and a
	few inactive homologous proteins. Carbonic anhydrase II is one of fourteen forms of human $lpha$
	carbonic anhydrases. Defects in this enzyme are associated with osteopetrosis and renal
	tubular acidosis. Renal carbonic anhydrase allows the reabsorption of sodium ions in the
	proximal tubule. Carbonic anhydrase II has been shown to interact with Band 3 and Sodium-
	hydrogen antiporter 1.
	Synonym: CA-II;CAC;CAII;Car2;HEL-76;HEL-S-282
Molecular Weight:	30 kDa
NCBI Accession:	NP_000058
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris 0.5M NaCl, 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.