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## Datasheet for ABIN7519731 **CA2 Protein**



Overview	
Quantity:	50 µg
Target:	CA2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Purpose:	Active Recombinant Human Carbonic anhydrase 2 Protein
Sequence:	SHHWGYGKHN GPEHWHKDFP IAKGERQSPV DIDTHTAKYD PSLKPLSVSY DQATSLRILN
	NGHAFNVEFD DSQDKAVLKG GPLDGTYRLI QFHFHWGSLD GQGSEHTVDK KKYAAELHLV
	HWNTKYGDFG KAVQQPDGLA VLGIFLKVGS AKPGLQKVVD VLDSIKTKGK SADFTNFDPR
	GLLPESLDYW TYPGSLTTPP LLECVTWIVL KEPISVSSEQ VLKFRKLNFN GEGEPEELMV
	DNWRPAQPLK NRQIKASFK
Specificity:	Ser2-Lys260
Purity:	> 90 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/ $\mu$ g of the protein by LAL method.
Biological Activity Comment:	Measured by its esterase activity. The specific activity is >840 pmoles/min/µg, as measured
	with 1 mM 4-Nitrophenyl acetate and 0.1 $\mu g$ enzyme at 400 nm in 100 $\mu L$ of 12.5 mM Tris, 75
	mM NaCl, pH 7.5.

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## Target Details

Target:	CA2
Alternative Name:	Carbonic anhydrase 2 (CA2 Products)
Background:	Description: The carbonic anhydrases (or carbonate dehydratases) are classified as
	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. CA2 is a
	cytosolic enzyme with the highest activity among all known CAs. Mutations in the CA2 gene
	result in the CA II deficiency syndrome, an autosomal recessive disorder that produces
	osteopetrosis, renal tubular acidosis and cerebral calcification.
	Name: CA2, CA-II, CAC, CAII, Car2, HEL-76, HEL-S-282, carbonic anhydrase 2,CA-
	II,CAC,CAII,Car2,HEL-76,HEL-S-282
Gene ID:	760
UniProt:	P00918
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile
	distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is
	recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %
	Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 $\mu m$ filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term.
	After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.