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Datasheet for ABIN7194579 CA8 Protein (His tag)

Overview

Quantity:	100 µg
Target:	CA8
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA8 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 8/CA8 Protein (His Tag)(Active)
Sequence:	Met 1-Gln 290
Characteristics:	A DNA sequence encoding the human CA8 (NP_004047.3) (Met 1-Gln 290) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 94 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Measured by its esterase activity. The specific activity is >100 pmoles/min/µg.

Target Details

Target:	CA8
Alternative Name:	Carbonic Anhydrase 8/CA8 (CA8 Products)
Background:	Background: The carbonic anhydrases (or carbonate dehydratases) are classified as

Target Details

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 anhydrase (CA) family consists of at least 11 enzymatically active members and a few inactive homologous proteins. Carbonic anhydrase protein (CA) VIII, which is a member of the CA gene family, has been shown to have no catalytic CA activity and its biological function is still unknown. Increased expression of CA-RP VIII was observed in 78 % of colorectal carcinomas. It suggested that CA-RP VIII plays a role in the process of invasion in colorectal cancer.

Synonym: Carbonic Anhydrase-Related Protein, CARP, Carbonic Anhydrase VIII, CA-VIII, CA8, CALS, CAMRQ3, MGC120502, MGC99509

Molecular Weight:	33.8 kDa
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NCBI Accession:	NP_004047
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile PBS, 15 % glycerol, pH 7.5
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Storage:	4 °C, -20 °C, -80 °C
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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.
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