Recombinant Protein Technical Manual

Recombinant Human Carbonic Anhydrase 8/CA8 Protein (His Tag)(Active)

RPES2903

Product Data:

Product SKU: RPES2903

Size: 50µg

Species: Human

Expression host: E. coli

Uniprot: NP_004047.3

Protein Information:

Molecular Mass:	33.8 kDa
AP Molecular Mass:	37 kDa
Tag:	C-His
Bio-activity:	Measured by its esterase activity. The specific activity is >100 pmoles/min/µg.
Purity:	> 94 % as determined by reducing SDS-PAGE.
Endotoxin:	Please contact us for more information.
Storage:	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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile PBS, 15% glycerol, pH 7.5
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Carbonic Anhydrase-Related Protein; CARP; Carbonic Anhydrase VIII; CA-VIII; CA8; CALS;CAMRQ3;MGC120502;MGC99509

Immunogen Information:

Sequence: Met 1-Gln 290

Background:

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. The carbonic anhydrasekl (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.