A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse Carbonic Anhydrase VIII/CA8 Protein (His Tag)

Catalog Number: PKSM040495

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Mouse

Source E.coli-derived Mouse Carbonic Anhydrase VIII/CA8 protein Met 1-Gln 291, with an C-

terminal His

Calculated MW 34.5 kDa
Observed MW 37 kDa
Accession P28651

Bio-activity Measured by its esterase activity. The specific activity is > 5 pmoles/min/µg.

Properties

Purity > 88 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 50mM Tris, pH 8.0

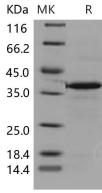
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 88 % as determined by reducing SDS-PAGE.

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.

For Research Use Only

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