

Human Carbonic Anhydrase IX/CA9 (His Tag) recombinant protein



Catalog Number: 501946

General Information

Gene Name Synonym

Carbonate dehydratase IX; Carbonic anhydrase IX; Membrane antigen MN; P54/58N; Renal cell carcinoma-associated antigen G250; pMW1

Protein Construction

A DNA sequence encoding the human carbonic anhydrase IX (CA9) precursor (NP_001207.2) (Met 1-Asp 414) was expressed with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its esterase activity. The specific activity is >30 pmoles/min/μg, as measured with 1 mM 4-Nitrophenyl acetate and 2.5 μg enzyme at 400 nm in 100 μL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Gln 38

Molecular Mass

The recombinant human CA9 consists of 388 amino acids and predicts a molecular mass of 42.5 kDa. As a result of glycosylation, rhCA9 migrates with apparent molecular mass of 48 kDa in SDS-PAGE under reducing conditions.

Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
 2. Please contact us for any concerns or special requirements.

Usage Guide

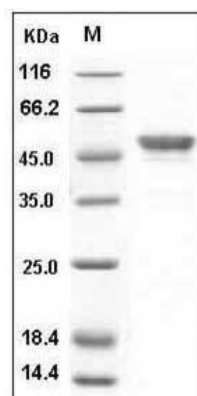
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human Carbonic Anhydrase IX / CA9 Protein (His Tag) SDS-PAGE