

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



Catalog Number: 503110

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 fused with the Fc region of human IgG1 at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its esterase activity. The specific activity is >50 pmoles/min/μg, as measured with 1 mM 4-Nitrophenyl acetate and 1 μg enzyme at 400 nm in 100 μL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

Purity

> 90 % 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/Fc is a disulfide-linked homodimer. The reduced monomer consists of 615 amino acids and predicts a molecular mass of 67.7 kDa. As a result of glycosylation, the apparent molecular mass of rh CA9/Fc monomer is approximately 80-90 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

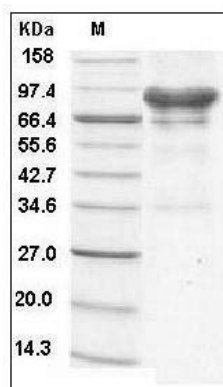
Storage

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



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