

Human Carbonic Anhydrase IV / Car4 / CA4 (His Tag) recombinant protein



Catalog Number: 502494

General Information

Gene Name Synonym

Carbonate dehydratase IV; Carbonic anhydrase IV

Protein Construction

A DNA sequence encoding the human CA4 (NP_000708.1) (Met1-Lys283) without the pro peptide was expressed, fused 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 >2 pmoles/min/μg.

Purity

> 96 % 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

Ala 19

Molecular Mass

The recombinant human CA4 consists of 276 amino acids after removal of the signal peptide and has a predicted molecular mass of 31.7 kDa. In SDS-PAGE under reducing conditions, rh CA4 migrates as an approximately 30 kDa band.

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

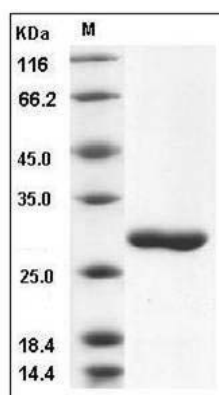
Storage

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 IV / CA4 Protein (His Tag) SDS-PAGE