

# Carbonic Anhydrase 3 /CA3, human recombinant

**CATALOG #:** 7833-10 10 µg  
7833-50 50 µg

**ALTERNATE NAMES:** CA3, Carbonic anhydrase 3

**SOURCE:** E.Coli (Met 1 – Lys 260)

**PURITY:** ≥ 95% by SDS-PAGE gel

**MOL. WEIGHT:** This protein is fused with polyhistidine tag at the C-terminus, and has a calculated MW of 30.4 kDa. The predicted N-terminus is Met 1. DTT-reduced Protein migrates as 28-30 kDa in SDS-PAGE.

**ENDOTOXIN LEVEL:** <1 EU/µg by LAL method

**FORM:** Lyophilized

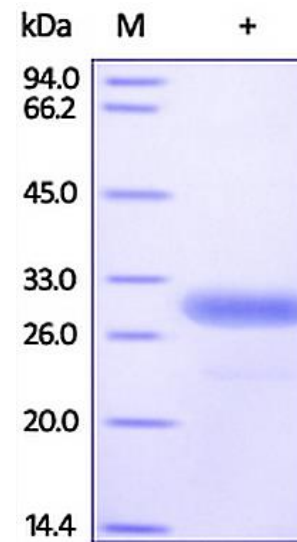
**FORMULATION:** Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.

**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C or -70°C for up to 3 months. Avoid repeated freezing and thawing cycles. No activity loss was observed after storage in lyophilized state for 1 year (4°C) and after reconstitution under sterile conditions for 3 months (-70°C).

**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

**DESCRIPTION:** Carbonic anhydrase 3 (CA3) is also known as Carbonate dehydratase III, Carbonic anhydrase III, which belongs to the alpha-carbonic anhydrase family. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration of carbon dioxide and are differentially expressed in a number of cell types. The catalytic activity of carbonic anhydrase 3 is activated by proton donors such as imidazole and the dipeptide histidylhistidine and is inhibited by coumarins and sulfonamide derivatives such as acetazolamide.

**BIOLOGICAL ACTIVITY:** Measured by its esterase activity. The specific activity is >1



**Human recombinant Carbonic Anhydrase 3 / CA3.** The purity of rh CA3 / Carbonic anhydrase 3 was determined by DTT-reduced (+) SDS-PAGE and staining overnight with Coomassie Blue.

## RELATED PRODUCTS:

- Human CellExp™ CA2, human recombinant (**Cat. No. 7479-10, -50**)
- Human CellExp™ CA4, human recombinant (**Cat. No. 7484-10**)
- Human CellExp™ CA9, human recombinant (**Cat. No. 7478-10**)
- Human CellExp™ CA10, human recombinant (**Cat. No. 7485-10**)
- Human Recombinant Carbonic anhydrase 2 (**Cat. No. 6390-100**)
- MMP-1, human recombinant (**Cat. No. 7781-10, 50, 1000**)
- MMP-2, human recombinant (**Cat. No. 7782-10, 50, 1000**)
- MMP-3, human recombinant (**Cat. No. 7783-10, 50, 1000**)
- MMP-9, human recombinant (**Cat. No. 7789-10, 50, 1000**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**