

32-2198: CA3 His Recombinant Protein

Alternative Name : Car3,CAIII,Carbonic anhydrase 3,EC 4.2.1.1,Carbonic anhydrase III,Carbonate dehydratase III,CA-III.

Description

Source : Escherichia Coli. Carbonic anhydrase III Human Recombinant produced in E.Coli, and having a molecular mass of 33.9 kDa. CAIII is expressed with an amino-terminal hexahistidine tag.The CA-III is purified by proprietary chromatographic techniques. Carbonic anhydrase (carbonate dehydratase) is a family of metalloenzymes (enzymes that contain one or more metal atoms as a functional component of the enzyme) that catalyze the rapid (and reversible) conversion of carbon dioxide to bicarbonate and protons, a reaction that occurs rather slowly in the absence of a catalyst. Carbonic anhydrase greatly increases the rate of the reaction, with typical catalytic rates of the different forms of this enzyme ranging between 10⁴ and 10⁶ reactions per second. The active site of most carbonic anhydrases contains a zincion. CAIII is a cytoplasmic isoenzyme, but is released into the circulation following injury.

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Supplied in 10mM Tris-HCl (pH 8), 250mM NaCl, 0.5mM DTT, 1.5mM Cysteine, and 50% Glycerol.
Storage condition :	CAIII although stable at 4°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

