

## CAIII Human, His

**Description:**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.

**Catalog #:**ENPS-277

For research use only.

**Synonyms:**Car3, CAIII, Carbonic anhydrase 3, EC 4.2.1.1, Carbonic anhydrase III, Carbonate dehydratase III, CA-III.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered blue solution.

**Purity:**Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

Supplied in 10mM Tris-HCl (pH 8), 250mM NaCl, 0.5mM DTT, 1.5mM Cysteine, and 50% Glycerol.

**Stability:**

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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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 10<sup>4</sup> and 10<sup>6</sup> 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.

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