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Carbonic Anhydrase 3, human recombinant protein

CA3, Carbonic anhydrase 3
Catalog # PBV11392r

Specification

Carbonic Anhydrase 3, human recombinant protein - Product info

Primary Accession	P07451
Calculated MW	**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. KDa**

Carbonic Anhydrase 3, human recombinant protein - Additional Info

Gene ID	**761**
Gene Symbol	**CA3**
Other Names	
CA3, Carbonic anhydrase 3	
Gene Source	**Human**
Source	**E.coli**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**
Results	**The specific activity is >1 pmol/min/ µg.**

Target/Specificity
Carbonic Anhydrase 3

Application Notes
Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

Format
Lyophilized

Storage
-20°C; 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.

Carbonic Anhydrase 3, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Carbonic Anhydrase 3, human recombinant protein - Images

Carbonic Anhydrase 3, human recombinant protein - Background

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.

Carbonic Anhydrase 3, human recombinant protein - References

Lloyd J.,et al.Gene 41:233-239(1986).
Wade R.,et al.Proc. Natl. Acad. Sci. U.S.A. 83:9571-9575(1986).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Lloyd J.,et al.Genes Dev. 1:594-602(1987).