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Human recombinant protein Carbonic anhydrase 2

Human Recombinant Carbonic anhydrase 2
Catalog # PBV10626r

Specification

Human recombinant protein Carbonic anhydrase 2 - Product info

Primary Accession	P00918
Concentration	1
Calculated MW	29.2 kDa (260 aa, 1-260 aa) KDa

Human recombinant protein Carbonic anhydrase 2 - Additional Info

Gene ID	760
Gene Symbol	CA2

Other Names
CA-II, CAC, Carbonic anhydrase 2, Carbonate dehydratase 2, can, cynT2, yadF, b0126, JW0122, Carbonic Anhydrase II.

Gene Source	Human
Source	E. Coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	50-70 nmoles/min/ µg
Sequence	MSHHWGYGKH NGPEHWHKDF PIAKGERQSP VDIDTHTAKY DPSLKPLSVS YDQATSLRIL NNGHAFNVEF DDSQDKAVLK GGPLDGTYRL IQFHFHWGSL DGQGSEHTVD KKKYAAELHL VHWNTKYGDF GKAVQQPDGL AVLGIFLKVG SAKPGLQKVV DVLDSIKTKG KSADFTNFDP RGLLPESLDY WTYPGSLTTP PLLECVTWIV LKEPISVSSE QVLKFRKLNF NGEGEPEELM VDNWRPAQPL KNRQIKASFK

Format
Liquid

Storage
-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 50 mM NaCl, 1 mM DTT and 10% glycerol.

Human recombinant protein Carbonic anhydrase 2 - 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

Human recombinant protein Carbonic anhydrase 2 - Images

Human recombinant protein Carbonic anhydrase 2 - Background

The enzyme Carbonic anhydrase 2 (CA2) is a part of the enzyme family that catalyses rapid inter-conversion of carbon dioxide & water to bicarbonate, carbonic acid and protons (CO2 + H2O to HCO3 + H), a reaction that occurs rather slowly in the absence of a catalyst. The majority of carbonic anhydrases enclose a zinc ion in their active site and therefore is classified as metalloenzymes. The most important function of Carbonic anhydrase is known to preserve acid-base balance in blood and other tissues, and to help transport carbon dioxide of tissues. Carbonic anhydrases have been found in all kingdoms of life. Mammalian carbonic anhydrase is monomeric and belongs to the alpha class. Mutations in the CA2 gene result in the CA2 deficiency syndrome, an autosomal recessive disorder that produces osteoporosis, renal tubular acidosis and cerebral calcification.

Human recombinant protein Carbonic anhydrase 2 - References

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Murakami H.,et al.Genomics 1:159-166(1987).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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