

## Carbonic Anhydrase 2 Human Recombinant

<b>Item Number</b>	rAP-0863
<b>Synonyms</b>	Carbonic anhydrase 2, Carbonate dehydratase 2, Carbonic Anhydrase II, CA-II, Carbonic anhydrase C, CAC, CA2, CAII, Car2.
<b>Description</b>	Carbonic anhydrase 2 Human Recombinant protein produced in E.Coli containing 260 amino acids (1-260) and having a molecular mass of 29.2 kDa. The Carbonic anhydrase 2 is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P00918
<b>Amino Acid Sequence</b>	MSHHWGYGKH NGPEHWHKDF PIAKGERQSP VDIDTHTAKY DPSLKPLSVS YDQATSLRIL NNGHAFNVEF DDSQDKAVLK GGPLDGTYRL IQFHFWGSL DGQGSEHTVD KKKYAAELHL VHWNTKYGDF GKAVQQPDGL AVLGIFLKVG SAKPGLQKVV DVLDSIKTKG KSADFTNFDP RGLL- PESLDY WTYPGSLTTP PLLECVTWIV LKEPISVSSE QVLKFRKLNF NGEGEPEELM VDNWRPAQPL KNRQIKASFK
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Formulation and Purity</b>	Carbonic Anhydrase 2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50mM NaCl and 10% glycerol. Greater than 95.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	Specific activity is 50-70 nmoles/min/μg and was obtained by measuring the increase in the amount of p-nitrophenol by its esterase activity. Specific activity is defined as the amount of p-nitrophenol that 1μg of enzyme can reduce at 25C for 1 minute
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**