

Carbonic Anhydrase 2 Protein, Human (C-His, Solution)

Cat. No.:	HY-P72860
Synonyms:	Carbonic anhydrase 2; Carbonic anhydrase C; CAC; CA-II; CA2
Species:	Human
Source:	E. coli
Accession:	NP_000058.1 (S2-K260)
Gene ID:	760
Molecular Weight:	Approximately 30 kDa

PROPERTIES

AA Sequence	<pre> MSHHWGYGKH NGPEHWHKDF PIAKGERQSP VDIDTHTAKY DPSLKPLSVS YDQATSLRIL NNGHAFNVEF DDSQDKAVLK GGPLDGTYRL IQFHFHWGSL DGGGSEHTVD KKKYAAELHL VHWNTKYGDF GKAVQQPDGL AVLGIFLKVG SAKPGLQKVV DVLDSIKTKG KSADFTNFDP RGLLPESLDY WTYPGSLTTP PLLECVTWIV LKEPISVSSE QVLKFRKLNf NGEGEPEELM VDNWRPAQPL KNRQIKASFk </pre>
Biological Activity	Measured by its esterase activity and the specific activity is >150 pmoles/min/μg.
Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of 20 mM Tris 0.5M NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	Carbonic Anhydrase 2 Protein is a member of the carbonic anhydrase isozyme family, responsible for catalyzing the reversible hydration of carbon dioxide. Dysregulation of this enzyme is linked to conditions such as osteopetrosis and renal tubular acidosis. Two transcript variants encoding distinct isoforms have been identified. In addition to its fundamental role in carbon dioxide metabolism, the protein exhibits biased expression in various tissues, with notable levels in the stomach
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and colon, as well as eight other tissues. This tissue-specific expression profile suggests its potential involvement in specialized physiological processes beyond its well-established functions in acid-base balance.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA