Proteins

Product Data Sheet

Carbonic Anhydrase 5B Protein, Human (His)

Cat. No.: HY-P7721

Synonyms: rHuCarbonic Anhydrase 5B, His; Carbonic Anhydrase 5B Mitochondrial; Carbonate Dehydratase

VB; Carbonic Anhydrase VB; CA5B

Human Species: Source: E. coli

Accession: Q9Y2D0 (C34-P317)

Gene ID: 11238

Molecular Weight: Approximately 33.0 kDa

PROPERTIES

CSLYTCTYKT RNRALHPLWE SVDLVPGGDR QSPINIRWRD SVYDPGLKPL TISYDPATCL HVWNNGYSFL VEFEDSTDKS VIKGGPLEHN YRLKQFHFHW GAIDAWGSEH TVDSKCFPAE LHLVHWNAVR FENFEDAALE ENGLAVIGVF LKLGKHHKEL KHKDALVEFG SFDPSCLMPT QKLVDTLPSI CPDYWTYSGS TWIIKKQPVE LTTPPLSESV VDHDQLEQFR TLLFTSEGEK EKRMVDNFRP LQPLMNRTVR SSFRHDYVLN VQAKPKPATS

QATPHHHHHH

Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance

Solution.

Formulation

Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 100 mM NaCl, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconsititution

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.

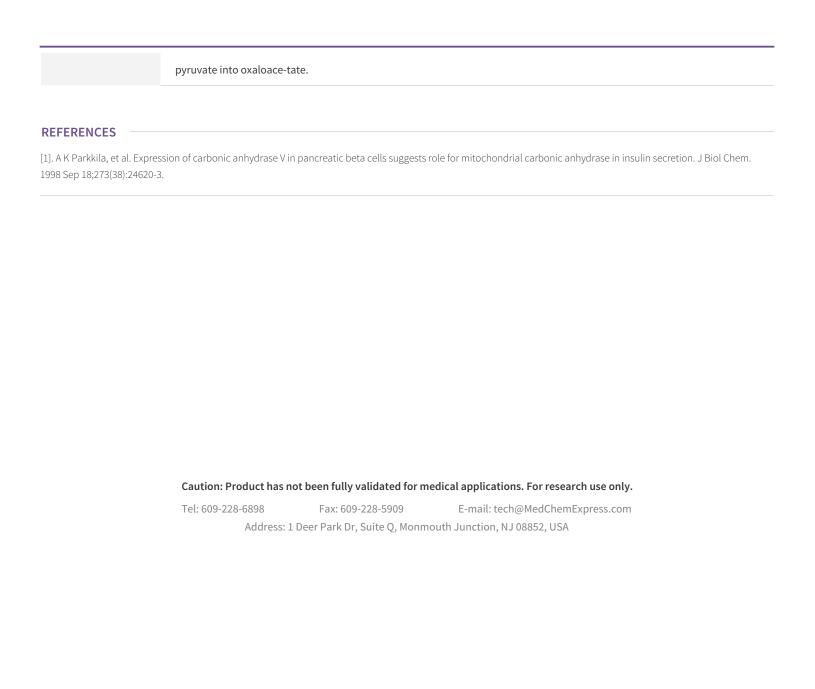
Shipping

Shipping with dry ice.

DESCRIPTION

Background

Thea-CA gene family includes at least seven isoen-zymes (CA-I-VI and CA-IX) that provide bicarbonate ions and protons for the regulation of pH homeostasis. Physiologically, CA-V is known to provide bicarbonate ionsfor the first enzyme in the urea cycle, carbamoyl-phosphatesynthetase I, and for the first step of gluconeogenesis, inwhich pyruvate carboxylase converts



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