Proteins

Screening Libraries



Product Data Sheet

Carbonic Anhydrase 12 Protein, Mouse (277a.a, HEK293, His)

Cat. No.: HY-P7716

Synonyms: rMuCarbonic Anhydrase 12, His; Carbonic anhydrase 12; Carbonate dehydratase XII; CA-XII;

CA12; Carbonate dehydratase XII;

Mouse Species: Source: **HEK293**

Accession: Q8CI85 (A25-S301)

Gene ID: 76459 Molecular Weight: 35-40 kDa

PROPERTIES

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APLNGSKWTY VGPAGEKNWS KKYPSCGGLL QSPIDLHSDI LQYDASLAPL QFQGYNVSVE KLLNLTNDGH SVRLNLNSDM YIQGLQPHHY RAEQLHLHWG NRNDPHGSEH TVSGKHFAAE YPDFSTASDK SEGLAVLAVL IEIGSANPSY $\mathsf{L}\;\mathsf{H}\;\mathsf{I}\;\mathsf{V}\;\mathsf{H}\;\mathsf{Y}\;\mathsf{N}\;\mathsf{S}\;\mathsf{D}\;\mathsf{L}$ GFNIEELLPE DKIFSHLQHV KYKGQQVLIP SPGEYYRYEG SLTTPPCYPT VLWTVFRNPV QISQEQLLAL ETALYFTHMD DPTPREMINN FRQVQKFDER LVYISFRQGL LTDTGLSHHH

HHH

Biological Activity

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

Appearance

Lyophilized powder.

Formulation

Lyophilized after extensive dialysis against 20 mM Tris, 150 mM NaCl, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

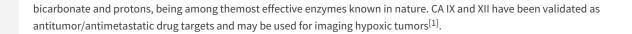
Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CAs are widespread in humans with 12 catalytically active isoforms and three acatalytic ones (CA VIII, X, and XI) known to date. Many of the catalytically activeCAs possess an excellent activity as catalysts for the reversibleCO2hydration to



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[1]. Claudiu T Supuran, et al. Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors

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

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Page 2 of 2 www.MedChemExpress.com