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Datasheet for ABIN5853103

CA11 Protein (AA 24-328) (His tag)

1 Image

Overview

Quantity:	100 µg
Target:	CA11
Protein Characteristics:	AA 24-328
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA11 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence: MGSSHHHHHH SSSLVPRGSH MHIGPAPDPE DWWSYKDNLQ GNFVPGPPFW GLVNAAWSLC
AVGKRQSPVD VELKRVLYDP FLPLRLSTG GEKLRGTYLN TGRHVSFLPA PRPVNVVSGG
PLLYSHRLSE LRLFGARDG AGSEHQINHQ GFSAEVQLIH FNQELYGNFS AASRGPNGLA
ILSLFVNVAS TSNPFLSRLN NRDTITRISY KNDAYFLQDL SLELLFPESF GFITYQGSLN
TPPCSETVTW ILIDRALNIT SLQMHSRLN SQNPPSQIFQ SLSGNSRPLQ PLAHRALRGN
RDPRHPERRC RGPNYRLHVD GVPHGR

Purity: > 85 % by SDS - PAGE

Target Details

Target:	CA11
Alternative Name:	CA11 (CA11 Products)

Target Details

Background: Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA11 is likely a secreted protein, however, radical changes at active site residues completely conserved in CA isozymes with catalytic activity, make it unlikely that it has carbonic anhydrase activity. It shares properties in common with two other acatalytic CA isoforms, CA VIII and CA X. CA11 is most abundantly expressed in brain, and may play a general role in the central nervous system. Recombinant human CA11 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Molecular Weight: 36.3kDa (326aa)

NCBI Accession: [NP_001208](#)

UniProt: [O75493](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Denatured

Restrictions: For Research Use only

Handling

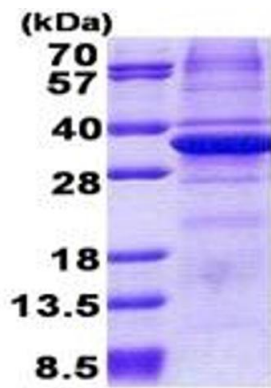
Format: Liquid

Concentration: 1 mg/mL

Buffer: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10 % glycerol

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

SDS-PAGE

Image 1.