

Product datasheet for PH309229

OriGene Technologies, Inc.

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Carbonic Anhydrase IV (CA4) (NM_000717) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: CA4 MS Standard C13 and N15-labeled recombinant protein (NP_000708)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

or AA Sequence:

RC209229

Predicted MW: 35.03 kDa

Protein Sequence: >RC209229 representing NM_000717

Red=Cloning site Green=Tags(s)

MRMLLALSAARPSASAESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINIVTTKAKVDKKLGRF FFSGYDKKQTWTVQNNGHSVMMLLENKASISGGGLPAPYQAKQLHLHWSDLPYKGSEHSLDGEHFAMEMH IVHEKEKGTSRNVKEAQDPEDEIAVLAFLVEAGTQVNEGFQPLVEALSNIPKPEMSTTMAESSLLDLLPK EEKLRHYFRYLGSLTTPTCDEKVVWTVFREPIQLHREQILAFSQKLYYDKEQTVSMKDNVRPLQQLGQRT

VIKSGAPGRPLPWALPALLGPMLACLLAGFLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 000708

RefSeq Size: 1104 RefSeq ORF: 936

Synonyms: CAIV; Car4; RP17

Locus ID: 762





UniProt ID: P22748

Cytogenetics: 17q23.1

Summary: 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. This gene encodes a

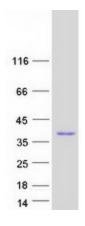
glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of

bicarbonate transport. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Nitrogen metabolism

Product images:



Coomassie blue staining of purified CA4 protein (Cat# [TP309229]). The protein was produced from HEK293T cells transfected with CA4 cDNA clone (Cat# [RC209229]) using MegaTran 2.0 (Cat# [TT210002]).