

Product datasheet for TP309229M

OriGene Technologies, Inc.

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Carbonic Anhydrase IV (CA4) (NM 000717) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human carbonic anhydrase IV (CA4), 100 μg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC209229 representing NM_000717 or AA Sequence: Red=Cloning site Green=Tags(s)

MRMLLALLALSAARPSASAESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINIVTTKAKVDKKLGRF FFSGYDKKQTWTVQNNGHSVMMLLENKASISGGGLPAPYQAKQLHLHWSDLPYKGSEHSLDGEHFAM

EMH

IVHEKEKGTSRNVKEAQDPEDEIAVLAFLVEAGTQVNEGFQPLVEALSNIPKPEMSTTMAESSLLDLLPK EEKLRHYFRYLGSLTTPTCDEKVVWTVFREPIQLHREQILAFSQKLYYDKEQTVSMKDNVRPLQQLGQRT

VIKSGAPGRPLPWALPALLGPMLACLLAGFLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 33.1 kDa

Concentration: $>0.05 \mu g/\mu L$ as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 000708

Locus ID: 762





UniProt ID: P22748

RefSeq Size: 1104

Cytogenetics: 17q23.1

RefSeq ORF: 936

Synonyms: CAIV; Car4; RP17

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

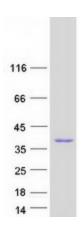
glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of

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]).