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Product datasheet for TP314555L

CA5A (NM_001739) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carbonic anhydrase VA, mitochondrial (CA5A), nuclear gene encoding mitochondrial protein, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC214555 representing NM_001739 Red=Cloning site Green=Tags(s) MLGRNTWKTSAFSFLVEQMWAPLWSRSMRPGRWCSQRSCAWQTSNNTLHPLWTVPVSVPGGTRQSPI NIQ WRDSVYDPQLKPLRVSYEAASCLYIWNTGYLFQVEFDDATEASGISGGPLENHYRLKQFHFHWGAVNEGG SEHTVDGHAYPAELHLVHWNSVKYQNYKEAVVGENGLAVIGVFLKLGAHHQTLQRLVDILPEIKHKDARA AMRPFDPSTLLPTCWDYWTYAGSLTTPPLTESVTWIIQKEPVEVAPSQLSAFRTLLFSALGEEEKMMVNN YRPLQPLMNRKVWASFQATNEGTRS SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	30.1 kDa
Concentration:	>0.05 µg/µL 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_001730

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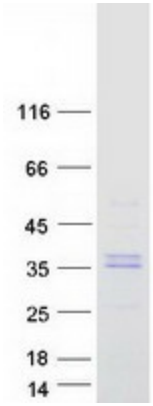
Locus ID:	763
UniProt ID:	P35218
RefSeq Size:	1084
Cytogenetics:	16q24.2
RefSeq ORF:	915
Synonyms:	CA5; CA5AD; CAV; CAVA; GS1-21A4.1
Summary:	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of 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. CA VA is localized in the mitochondria and expressed primarily in the liver. It may play an important role in ureagenesis and gluconeogenesis. CA5A gene maps to chromosome 16q24.3 and an unprocessed pseudogene has been assigned to 16p12-p11.2. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Nitrogen metabolism

Product images:



Coomassie blue staining of purified CA5A protein (Cat# [TP314555]). The protein was produced from HEK293T cells transfected with CA5A cDNA clone (Cat# [RC214555]) using MegaTran 2.0 (Cat# [TT210002]).