

Product datasheet for PH314555

CA5A (NM_001739) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CA5A MS Standard C13 and N15-labeled recombinant protein (NP_001730)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214555
Predicted MW:	34.75 kDa
Protein Sequence:	>RC214555 representing NM_001739 Red =Cloning site Green =Tags(s) MLGRNTWKTSAFSFLVEQMWAPLWSRSMRPGRWCSQRSCAWQTSNNTLHPLWTVPVSVPGGTRQSPINIQ WRDSVYDPQLKPLRVSYEAASCLYIWNTRYLQVVEFDDATEASGISGGPLENHRYLQKQFHFWGAVNEGG SEHTVDGHAYPAELHLVHNSVKYQNYKEAVVGENGLAVIGVFLKLGAAHQTLQRLVDILPEIKHKDARA AMRPFDPSTLLPTCWDYWTYAGSLTTPPLTESVTWIIQKEPVEVAPSQLSAFRTLLFSALGEEKMMVNN YRPLQPLMNRKVWASFQATNEGTRS SGP TRRRLE QKLI SEEDLAAND ILDYKDDDDK V
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_001730
RefSeq Size:	1084
RefSeq ORF:	915
Synonyms:	CA5; CA5AD; CAV; CAVA; GS1-21A4.1
Locus ID:	763



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UniProt ID: [P35218](#)

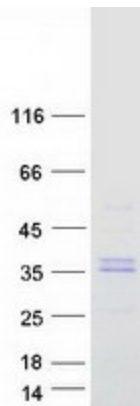
Cytogenetics: 16q24.2

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]).