

Product datasheet for PH307002

CA5B (NM_007220) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CA5B MS Standard C13 and N15-labeled recombinant protein (NP_009151)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207002
Predicted MW:	36.43 kDa
Protein Sequence:	>RC207002 representing NM_007220 Red=Cloning site Green=Tags(s) MVMNSLRVILQASPGKLLWRKFQIPRFMPARPCSLYTCTYKTRNRALHPLWESVDLVPGGDRQSPINIR WRDSVYDPGLKPLTISYDPATCLHVWNGYSFLVEFEDSTDKSVIKGGPLEHNYRLKQFHFWGAIDAWG SEHTVDSKCFPAELHLVHNAVRFENFEDAAL EENGLAVIGVFLKLGKHHKELQKLVDTLPSIKHKDALV EFGSFDPSCLMPTCPDYWTYSGSLTTPPLSESVTWI IKKQPVEVDHDQLEQFRTLLFTSEGEKEKRMVDN FRPLQPLMNRTVRSSFRHDYVLNVQAKPKPATSQATP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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:	<u>NP_009151</u>
RefSeq Size:	6032
RefSeq ORF:	951
Synonyms:	CA-VB; CAVB
Locus ID:	11238



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UniProt ID: [Q9Y2D0](#), [A0A024RBW9](#)

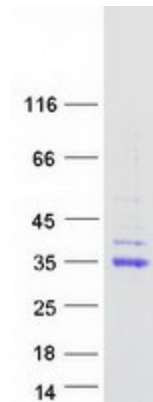
Cytogenetics: Xp22.2

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. This gene encodes carbonic anhydrase 5B. CA5B, and the related CA5A gene, has its expression localized in the mitochondria though CA5B has a wider tissue distribution than CA5A, which is restricted to the liver, kidneys, and skeletal muscle. A carbonic anhydrase pseudogene (CA5BP1) is adjacent to the CA5B gene and these two loci produce CA5BP1-CA5B readthrough transcripts. [provided by RefSeq, Jan 2019]

Protein Families: Druggable Genome

Protein Pathways: Nitrogen metabolism

Product images:



Coomassie blue staining of purified CA5B protein (Cat# [TP307002]). The protein was produced from HEK293T cells transfected with CA5B cDNA clone (Cat# [RC207002]) using MegaTran 2.0 (Cat# [TT210002]).