

Product datasheet for PH301974

Carbonic Anhydrase II (CA2) (NM_000067) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CA2 MS Standard C13 and N15-labeled recombinant protein (NP_000058)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201974
Predicted MW:	29.2 kDa
Protein Sequence:	>RC201974 protein sequence Red=Cloning site Green=Tags(s) MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDTHTAKYDPSLKPLSVSYDQATSLRILNNGHAFNVEF DDSQDKAVLKGGPLDGTYRLIQFHFHWGSLDGQGSEHTVDKCKYAAELHLVHWNTKYGDFGKAVQQPDGL AVLGIFLKVGSAPGLQKVVDVLDISIKTKGKSADFTNFAARGLLPESLDYWTYPGSLTTPPLLECVTWIV LKEPISVSSEQVLKFRKLNFNNGEPEELMVDNWRPAQPLKNRQIKASFK 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:	NP_000058
RefSeq Size:	1666
RefSeq ORF:	780
Synonyms:	CA-II; CAC; CAII; Car2; HEL-76; HEL-S-282
Locus ID:	760
UniProt ID:	P00918 , V9HW21



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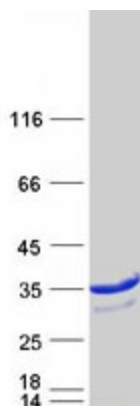
Cytogenetics: 8q21.2

Summary: The protein encoded by this gene is one of several isozymes of carbonic anhydrase, which catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]

Protein Families: Druggable Genome

Protein Pathways: Nitrogen metabolism

Product images:



Coomassie blue staining of purified CA2 protein (Cat# [TP301974]). The protein was produced from HEK293T cells transfected with CA2 cDNA clone (Cat# [RC201974]) using MegaTran 2.0 (Cat# [TT210002]).