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Product datasheet for PH301066

Carbonic Anhydrase III (CA3) (NM_005181) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CA3 MS Standard C13 and N15-labeled recombinant protein (NP_005172)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201066
Predicted MW:	29.6 kDa
Protein Sequence:	>RC201066 protein sequence Red=Cloning site Green=Tags(s) MAKEWGYASHNGPDHWHELFPNAKGENQSPIELHTKDIRHDPSLQPWSVSYDGGSAKTILNNGKTCRVVF DDTYDRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTVDGVKYAAELHLVHWNPKYNTFKEALKQRDGI AVIGIFLKIGHENGEFQIFLDALDKIKTKGKEAPFTKFDPSCLFPACRDYWTYQGSFTTPPCEECIVWLL LKEPMTVSSDQMAKLRSLLSSAENEPPVPLVSNWRPPQPINNRVVRASFK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_005172
RefSeq Size:	1753
RefSeq ORF:	780
Synonyms:	CAIII; Car3
Locus ID:	761
UniProt ID:	P07451, V9HWA3

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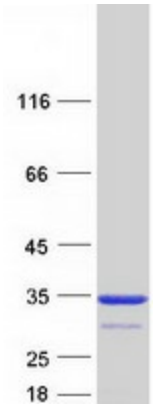
Cytogenetics: 8q21.2

Summary: Carbonic anhydrase III (CAIII) is a member of a multigene family (at least six separate genes are known) that encodes carbonic anhydrase isozymes. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration of carbon dioxide and are differentially expressed in a number of cell types. The expression of the CA3 gene is strictly tissue specific and present at high levels in skeletal muscle and much lower levels in cardiac and smooth muscle. A proportion of carriers of Duchenne muscle dystrophy have a higher CA3 level than normal. The gene spans 10.3 kb and contains seven exons and six introns. [provided by RefSeq, Oct 2008]

Protein Families: Druggable Genome

Protein Pathways: Nitrogen metabolism

Product images:



Coomassie blue staining of purified CA3 protein (Cat# [TP301066]). The protein was produced from HEK293T cells transfected with CA3 cDNA clone (Cat# [RC201066]) using MegaTran 2.0 (Cat# [TT210002]).