

Recombinant Human CA3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CA3-3283H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CA3 MS Standard C13 and N15-labeled recombinant protein (NP_005172) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	29.6 kDa
AA Sequence	MAKEWGYASHNGPDHWHELFPNAKGENQSPIELHTKDIRHDPSLQPWSVSYDGGG AKTILNNGKTCRVVFDPTYDRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTVD GVKYAAELHLVHWNPKYNTFKEALKQRDGIAGVIGIFLKIGHENGFEQIFLDALDKIKTK GKEAPFTKFDPSCLFPACRDYWTYQGSFTTPPCEECIVWLLLKEPMTVSSDQMAKL RSLSSAENEPPVPLVSNWRPPQPINNRRVVRASFKTRTRPLEQKLISEEDLAANDILD

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	YKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

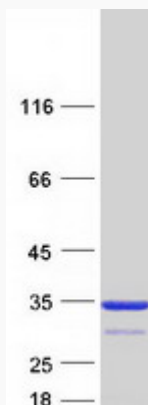
GENE INFORMATION

Gene Name	CA3 carbonic anhydrase 3 [Homo sapiens (human)]
Official Symbol	CA3
Synonyms	CA3; carbonic anhydrase III, muscle specific; carbonic anhydrase 3; CAIII; Car3; CA-III; carbonate dehydratase III; FLJ36434;
Gene ID	761
mRNA Refseq	NM_005181
Protein Refseq	NP_005172
MIM	114750
UniProt ID	P07451

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SDS-PAGE

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