

## Product datasheet for **TP301066L**

### Carbonic Anhydrase III (CA3) (NM\_005181) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carbonic anhydrase III, muscle specific (CA3), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC201066 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MAKEWGYASHNGPDHWHELFPNAKGENQSPIELHTKDIRHDPSLQPWSVSYDGGSAKTILNNGKTCRVVF  
DDTYDRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTVDGVKYAAELHLVHWNPKYNTFKEALKQRDGI  
AVIGIFLKIGHENGEFQIFLDALDKIKTKGKEAPFTKFDPSCLFPACRDYWTYQGSFTTPPCEECIVWLL  
LKEPMTVSSDQMAKLRSLSSAENEPVPLVSNWRPPQPINNRVVRASFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	29.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_005172</a>
Locus ID:	761
UniProt ID:	<a href="#">P07451</a> , <a href="#">V9HWA3</a>



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RefSeq Size: 1753

Cytogenetics: 8q21.2

RefSeq ORF: 780

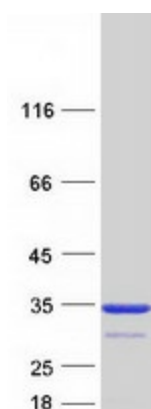
Synonyms: CAIII; Car3

**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]).