

Recombinant Full Length Human CA3 Protein, C-Flag-tagged

Cat. No. CA3-926HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CA3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	29.4 kDa
AA Sequence	MAKEWGYASHNGPDHWHELFPNAKGENQSPIELHTKDIRHDPSLQPWSVSYDGGG AKTILNNGKTCRVVF DDTYDRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTVD GVKYAAELHLVHWNPKYNTFKEALKQRDGI AVIGIFLKIGHENGFEQIFLDALDKIKTK GKEAPFTKFDPSCLFPACRDYWTYQGSFTTPPCEECIVWLL LKEPMTVSSDQMAKLRSLLSSAENEPPVPLVSNWRPPQPINNRRVVRASFKTRTRPL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Nitrogen metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	CA3 carbonic anhydrase 3 [Homo sapiens (human)]
Official Symbol	CA3
Synonyms	Car3; CAIII
Gene ID	761
mRNA Refseq	NM_005181.4

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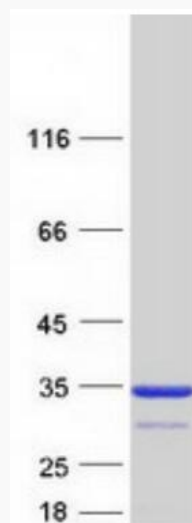
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Protein Refseq NP_005172.1

MIM 114750

UniProt ID P07451



Coomassie blue staining of purified CA3 protein.

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