

Recombinant Human CA3

Cat. No. CA3-27266TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Carbonic Anhydrase III protein (Human)
Species	Human
Source	E.coli
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.
Tissue specificity	Muscle specific.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the alpha-carbonic anhydrase family.

 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

Full Length
Full L.

GENE INFORMATION

Gene Name

CA3 carbonic anhydrase III, muscle specific [Homo sapiens]

Official Symbol

CA3

Synonyms

CA3; carbonic anhydrase III, muscle specific; carbonic anhydrase 3; CAIII; Car3;

Gene ID

761

mRNA Refseq

NM_005181

Protein Refseq

NP_005172

MIM

114750

Uniprot ID

P07451

**Chromosome
Location**

8q21.2

Pathway

Nitrogen metabolism, organism-specific biosystem; Nitrogen metabolism, conserved biosystem;

Function

carbonate dehydratase activity; lyase activity; metal ion binding; nickel ion binding; zinc ion binding;

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