

Recombinant Human CA3, His-tagged

Cat. No. CA3-27267TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein (Human), containing an N-terminal hexahistidine tag, MW 33.9kDa.
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.
Conjugation	HIS
Tissue specificity	Muscle specific.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Sequence Similarities Belongs to the alpha-carbonic anhydrase family.

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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