

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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