

Recombinant Full Length Human CA3 Protein, GST-tagged

Cat. No. CA3-2736HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CA3 full-length ORF (AAH04897, 1 a.a. - 260 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	260 amino acids
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. [provided by RefSeq, Oct 2008]
Molecular Mass	54.34 kDa
AA Sequence	MAKEWGYASHNGPDHWHELFPNAKGENQSPIELHTKDIRHDPSLQPWSVSYDGGG AKTILNNGKTCRVVFDPTYDRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTVD GVKYAAELHLVHWNPKYNTFKEALKQRDGIAVIGIFLKGHENGFEQIFLDALDKIKTK GKEAPFTKFDPSCLFPACRDYWTYQGSFTTPPCEECIVWLLLKEPMTVSSDQMAKL

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RSLPSAENEPPVPLVSNWRPPQPINNRVVRASFK

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; CA-III; carbonate dehydratase III; FLJ36434;

Gene ID

761

mRNA Refseq

NM_005181

Protein Refseq

NP_005172

MIM

114750

UniProt ID

P07451

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