

Recombinant Human CA2

Cat. No. CA2-27265TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Carbonic Anhydrase II, Predicted MWt 29 kDa.
Species	Human
Source	E.coli
Description	CA2 is one of several (at least 7) isozymes of carbonic anhydrase. Carbonic anhydrase catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 50mM Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MSHHWGYGKH NGPEHWHKDF PIAKGERQSP VDIDHTAKY DPSLKPLSVS YDQATSLRIL NNGHAFNVEF DDSQDKAVLK GGPLDGTYRL IQFHFHWGSL DGQGSEHTVD KKKYAAELHL VHWNTKYGDF GKAVQQPDGL AVLGIFLKVG SAKPGLQKV V DVLDSIKTKG KSADFTNFD P RGLLPESLDY WTPGSLTTP PLLECVTWIV LKEPISVSSE QVLKFRKLN NGEGEPEELM VDNWRPAQPL

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

KNRQIKASFK

**Sequence
Similarities**

Belongs to the alpha-carbonic anhydrase family.

Full Length

Full L.

GENE INFORMATION

Gene Name

CA2 carbonic anhydrase II [Homo sapiens]

Official Symbol

CA2

Synonyms

CA2; carbonic anhydrase II; carbonic anhydrase 2; CA II; CAII; Car2;

Gene ID

760

mRNA Refseq

NM_000067

Protein Refseq

NP_000058

MIM

611492

Uniprot ID

P00918

**Chromosome
Location**

8q22

Pathway

Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem;
Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid
secretion, conserved biosystem; Gastric acid secretion, organism-specific biosystem;

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Function

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

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