

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 SAKPGLQKVV DVLDSIKTKG KSADFTNFDG RGLLPESLDY WTPGSLTTP PLLECVTWIV LKEPISVSSE QVLKFRKLNK NGEGEPEELM VDNWRPAQPL

 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

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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