

Active Recombinant Human CA2 Protein

Cat. No. CA2-0237H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CA2 (NP_000058, 1 a.a. - 260 a.a.) full-length recombinant protein expressed in Escherichia coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is one of several isozymes of carbonic anhydrase, which catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]
Form	Liquid
Bio-activity	Specific activity is 50-70 nmoles/min/ug and was obtained by measuring the increase in the amount of p-nitrophenol by its esterase activity. Specific activity is defined as the amount of p-nitrophenol that 1ug of enzyme can reduce at 25 centigrade for 1 minute.
Molecular Mass	29.2 kDa
AA Sequence	MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDHTAKYDPSLKPLSVSYDQAT SLRILNNGHAFNVEFDDSDKAVLKGGPLDGTYRLIQFHFHWGSLDGQGSEHTVDK KKYAAELHLVHWNTKYGDFGKAVQQPDGLAVLGIFLKVGSAKPGLQKVVDVLDSIKT

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	KGKSADFTNFDPRGLLPESLDYWTYPGSLTTPPLLECVTWIVLKEPISVSSEQVLKFR KLNFNNGEGEPEELMVDNWRPAQPLKNRQIKASFK
Purity	> 95% by SDS-PAGE
Applications	Functional Study SDS-PAGE
Storage	Store at 4 centigrade for 1-2 weeks. For long term storage store at -20 centigrade or -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Concentration	1 mg/mL
Storage Buffer	In 20 mM Tris-HCl, 50 mM NaCl, pH 8.0 (1 mM dithiothreitol, 10% glycerol)

GENE INFORMATION

Gene Name	CA2 carbonic anhydrase II [Homo sapiens]
Official Symbol	CA2
Synonyms	CA2; carbonic anhydrase II; carbonic anhydrase 2; CA II; CAll; Car2; CAC; carbonic anhydrase B; carbonic anhydrase C; carbonic dehydratase; carbonate dehydratase II; CA-II;
Gene ID	760
mRNA Refseq	NM_000067
Protein Refseq	NP_000058

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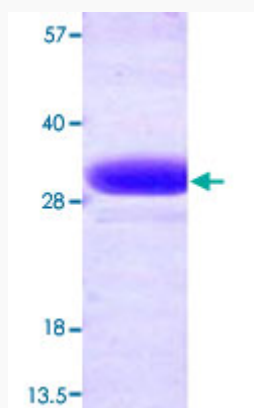
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MIM 611492

UniProt ID P00918

**Quality Control
Testing**



Loading 3 µg protein in 15% SDS-PAGE

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