

Active GMP Recombinant Human CA9 protein

Cat. No. CA9-804HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Human CA9 protein(NP_001183.2)(376 aa), fused with His Tag at the C-terminal, was expressed in HEK293 cell in an animal component free process under cGMP guidelines.
Species	Human
Source	HEK293
ProteinLength	DNA sequence encoding Human Carbonic Anhydrase IX(NP_001207.2) was expressed with His tag at the C-terminal.
Form	Freeze-dried powder contains Sterile PBS (pH 7.4) with 6% mannitol.
Bio-activity	The specific activity is >200 pmol/min/ug, and 4-nitrophenylacetate is used for detection (routine test). One unit refers to the amount of enzyme that hydrolyzes 1.0 p mole of 4-nitrophenylacetic acid salt into 4-nitrophenol at pH 7.5 per minute at room temperature
Molecular Mass	Recombinant Human CA9 contains 376 aa. It has a predicted MW of 42.6 kDa.
Endotoxin	<0.1EU/ug
Purity	>=95% by SDS-PAGE and HPLC
Storage	The lyophilized preparation can be stored at 4°C for 24 months, and the dissolved

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liquid can be stored at -20°C for 6-12 months to avoid repeated freezing and thawing

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name CA9 carbonic anhydrase IX [Homo sapiens]

Official Symbol CA9

Synonyms CAIX; CA9; CA-IX; G250; MN; P54/58N; pMW1

Gene ID 768

mRNA Refseq NM_001216

Protein Refseq NP_001207

MIM 603179

UniProt ID Q16790

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