

Recombinant Human CA8, GST-tagged

Cat. No. CA8-10626H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA8 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-139a.a.
Description	The protein encoded by this gene was initially named CA-related protein because of sequence similarity to other known carbonic anhydrase genes. However, the gene product lacks carbonic anhydrase activity (i.e., the reversible hydration of carbon dioxide). The gene product continues to carry a carbonic anhydrase designation based on clear sequence identity to other members of the carbonic anhydrase gene family. The absence of CA8 gene transcription in the cerebellum of the lurcher mutant in mice with a neurologic defect suggests an important role for this acatalytic form.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	CA8 carbonic anhydrase VIII [Homo sapiens]
Official Symbol	CA8
Synonyms	CA8; carbonic anhydrase VIII; CALS; carbonic anhydrase-related protein; CARP; CA-related protein; carbonate dehydratase; carbonic anhydrase-like sequence; CAMRQ3; CA-VIII; MGC99509; MGC120502;
Gene ID	767
mRNA Refseq	NM_004056
Protein Refseq	NP_004047
MIM	114815
UniProt ID	P35219
Chromosome Location	8q11-q12
Function	carbonate dehydratase activity; metal ion binding; zinc ion binding;

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