Recombinant Human CA7

Cat. No. CA7-707H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA7 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Ala264) of Human CA7.
Species	Human
Source	E.coli
ProteinLength	1-264 a.a.
Description	Carbonic anhydrases are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. The cytosolic protein encoded by this gene is predominantly expressed in the salivary glands. Alternative splicing in the coding region results in multiple transcript variants encoding different isoforms.
Formulation	Supplied as a 0.2 μM filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0
Shipping	The product is shipped on dry ice/ice packs.
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).

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

Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
OfficialSymbol	CA7

GENE INFORMATION

Gene Name	CA7 carbonic anhydrase VII [Homo sapiens]
Synonyms	CA7; carbonic anhydrase VII; carbonic anhydrase 7; CA-VII; carbonic dehydratase VII; carbonate dehydratase VII; CAVII
Gene ID	766
mRNA Refseq	NM_001014435
Protein Refseq	NP_001014435
MIM	114770
UniProt ID	P43166
Chromosome Location	16q22.1
Pathway	Metabolism; Reversible Hydration of Carbon Dioxide
Function	carbonate dehydratase activity; zinc ion binding

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