



# Recombinant Human Carbonic anhydrase 7 (CA7)

<b>Product Code</b>	CSB-EP004378HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P43166
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MTGHHGWGYG QDDGPSHWHK LYPIAQGDRQ SPINISSQA VYSPSLQPLE LSYEACMSLS ITNNGHSVQV DFNDSDDRTV VTGGPLEGPY RLKQFHFHWG KKHDVGSEHT VDGKSFPSEL HLVHWNACKY STFGEAASAP DGLAVVGVFL ETGDEHPSMN RLTDALYMVR FKGTKAQFSC FNPCKLLPAS RHYWTYPGSL TTPPLESESVT WIVLREPICI SERQMCKFRS LLFTSEDDER IHMVNNFRPP QPLKGRVVKA SFRA
<b>Source</b>	E.coli
<b>Target Names</b>	CA7
<b>Protein Names</b>	Recommended name: Carbonic anhydrase 7 EC= 4.2.1.1 Alternative name(s): Carbonate dehydratase VII Carbonic anhydrase VII Short name= CA-VII
<b>Expression Region</b>	1-264
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.