Recombinant Mouse Carbonic anhydrase 4 (Ca4)

Product Code	CSB-MP727072MO
Abbreviation	Ca4
Storage	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.
Uniprot No.	Q64444
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	EDS GWCYEIQTKD PRSSCLGPEK WPGACKENQQ SPINIVTART KVNPRLTPFI LVGYDQKQQW PIKNNQHTVE MTLGGGACII GGDLPARYEA VQLHLHWSNG NDNGSEHSID GRHFAMEMHI VHKKLTSSKE DSKDKFAVLA FMIEVGDKVN KGFQPLVEAL PSISKPHSTS TVRESSLQDM LPPSTKMYTY FRYNGSLTTP NCDETVIWTV YKQPIKIHKN QFLEFSKNLY YDEDQKLNMK DNVRPLQPLG KRQVFKS
Source	Mammalian cell
Target Names	Ca4
Protein Names	Recommended name: Carbonic anhydrase 4 EC= 4.2.1.1 Alternative name(s): Carbonate dehydratase IV Carbonic anhydrase IV Short name= CA-IV
Expression Region	18-277
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Carbonic anhydrases (CAs) 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. This gene encodes a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of bicarbonate transport.
Reconstitution	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.
Shelf Life	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.