

## Mouse CAIX, His Tag, CHO

Catalog Number	LDG017PMM
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Mouse

#### Expression system

CHO

#### Affinity Tag

His Tag (C-term)

#### Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Purity

>95% as determined by SDS-PAGE analysis.

#### Molecular weight

The protein has a calculated MW of 39.66 kDa. The protein migrates as 42 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin level

<0.1 EU per 1 µg of the protein by the LAL method.

#### Mycoplasma

Not detected

#### Form

Lyophilized

### Background

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### Background

CAIX (Carbonic Anhydrase IX) protein, a transmembrane enzyme, is overexpressed in various solid tumors, including renal cell carcinoma. It catalyzes the reversible hydration of carbon dioxide to bicarbonate ions and protons, playing a crucial role in pH regulation and acid-base balance within the tumor microenvironment. CAIX facilitates tumor cell survival, migration, and invasion by maintaining an acidic extracellular pH and promoting angiogenesis. Its selective expression in tumor tissues makes CAIX an attractive target for cancer therapy. Inhibiting CAIX activity disrupts tumor growth and metastasis, highlighting its significance as a diagnostic and therapeutic biomarker in oncology.

### Uniprot ID

Q8VHB5

### Synonyms

Carbonate dehydratase IX, Carbonic anhydrase IX (CA-IX; CAIX), Membrane antigen MN homolog

### Sequence Note

Met1-Asp390

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration of 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

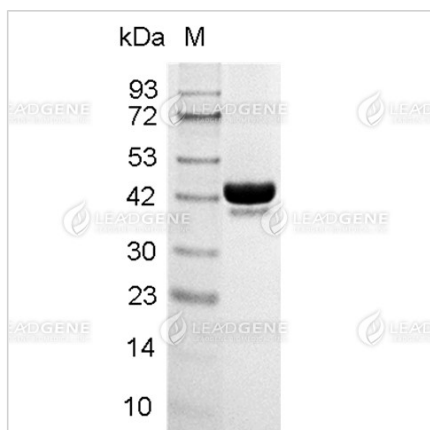
- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image



SDS-PAGE analysis of recombinant mouse CAIX.

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