Product Name: Recombinant Mouse Carbonic Anhydrase 14 (N-6His)
Catalog #: PEM0221

Summary

Name	Carbonic Anhydrase XIV/CA14
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Mouse Carbonic Anhydrase 14 is produced by our E.coli expression system and the target gene encoding Ala16-Met290 is expressed with a 6His tag at the N-terminus.
Accession #	Q9WVT6
Host	E.coli
Species	Mouse
Predicted Molecular Mass	32.3 KDa
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/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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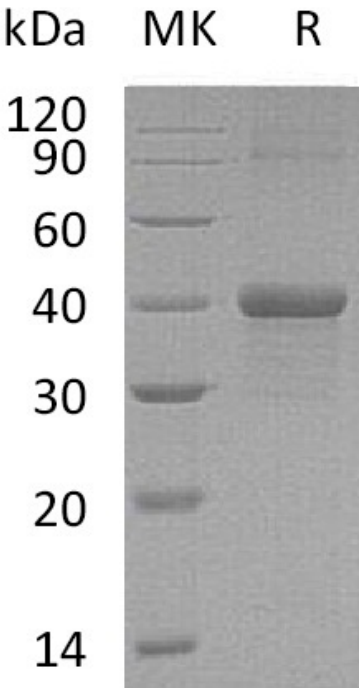

Alternative Names

Carbonic Anhydrase 14; Carbonate Dehydratase XIV; Carbonic Anhydrase XIV; CA-XIV; CA14

Background

Mouse Ca14,also known as Carbonic anhydrase 14,is a member of large family of zinc metalloenzymes .It could catalyze reversible hydration of carbon dioxide. The reaction is fundamental to many processes such as respiration, renal tubular acidification and bone resorption. Fifteen CA isoforms have been reported so far. They have different patterns of tissue-specific expression and physiologic roles. Some CAs may serve as markers for tumors and hypoxia. CA XIV is a polypeptide consisting of an extracellular N-terminal catalytic domain, a membrane-spanning segment and a short intracellular C- terminal segment with several potential phosphorylation sites. A subset of CAs lack CA activity due to point mutations but retain esterase function. CA14 is widely expressed in the central nervous system

Note

For Research Use Only , Not for Diagnostic Use.