Active Recombinant Mouse Car14 Protein, His-tagged

Cat. No. Car14-822M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant extracellular domain of mouse Car14 (NP_035927.1) (Met 1-Met 290) was expressed with a C-terminal polyhistidine tag.
Species	Mouse
Source	HEK293
ProteinLength	1-290 a.a.
Predicted N Terminal	Ala 16
Form	Lyophilized from sterile 25mM Tris, 0.15mM NaCl, pH 7.51, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its esterase activity. The specific activity is >400 pmoles/min/μg, as measured with 1 mM 4-Nitrophenyl acetate and 0.8 μg enzyme at 400 nm in 100 μL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.
Molecular Mass	The recombinant mouse CA14 consists of 286 amino acids and has a calculated molecular mass of 32.2 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 45-48 kDa protein in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.

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Purity	>95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70ºC.
Storage	Store it under sterile conditions at -20ºC~-70ºC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Car14 carbonic anhydrase 14 [Mus musculus]
Official Symbol	Car14
Synonyms	Ca14; AW536446; CA XIV; CA-XIV; carbonate dehydratase XIV; carbonic anhydrase XIV
Gene ID	23831
mRNA Refseq	NM_011797
Protein Refseq	NP_035927
MIM	
UniProt ID	Q9WVT6
Chromosome Location	3; 3 F2.1

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Pathway	Metabolism, organism-specific biosystem; Nitrogen metabolism, organism-specific biosystem; Nitrogen metabolism, conserved biosystem
Function	carbonate dehydratase activity; lyase activity; metal ion binding

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