

Active Recombinant Mouse Car2 Protein, His-tagged

Cat. No. Car2-886M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CA2 (AAH55291.1) (Met 1-Lys 260) was expressed, with a C-terminal polyhistidine tag.
Species	Mouse
Source	E.coli
ProteinLength	1-260 a.a.
Predicted N Terminal	Ser 2
Form	Lyophilized from sterile 50mM Tris, 150mM NaCl, pH 7.51, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its esterase activity. The specific activity is >100 pmoles/min/μg.
Molecular Mass	The recombinant mouse CA2 comprises 270 amino acids and has a calculated molecular mass of 30.4 kDa. The recombinant protein migrates as an approximately 30-33 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	>96 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.

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Storage	Store it under sterile conditions at -20°C~-70°C. 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°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	Car2 carbonic anhydrase 2 [Mus musculus]
Official Symbol	Car2
Synonyms	Ca2; CAII; Car-2; Ltw-5; Lvtw-5; AI131712; CA II; CA-II; carbonate dehydratase II; carbonic anhydrase II
Gene ID	12349
mRNA Refseq	NM_009801
Protein Refseq	NP_033931
MIM	
UniProt ID	P00920
Chromosome Location	3 A1; 3 3.23 cM
Pathway	Collecting duct acid secretion, organism-specific biosystem; Nitrogen metabolism, organism-specific biosystem; Pancreatic secretion, conserved biosystem
Function	arylesterase activity; carbonate dehydratase activity; metal ion binding

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