

Active Recombinant Mouse Car4 protein(Met1-Ser277), His-tagged

Cat. No. Car4-662M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Car4 (NP_031633.1) without the C-terminal propeptide (Met 1-Ser 277) was expressed in HEK293, with a C-terminal polyhistidine tag.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Ser277
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its esterase activity. The specific activity is >10 pmoles/min/μg.
Molecular Mass	The secreted recombinant mouse Car4 consists of 271 amino acids and has a calculated molecular mass of 31 kDa as estimated in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	> 98 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein

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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 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name Car4 carbonic anhydrase 4 [Mus musculus]

Official Symbol Car4

Synonyms CAR4; carbonic anhydrase 4; CA IV; CA-IV; carbonic anhydrase IV; carbonate dehydratase IV; Ca4; AW456718;

Gene ID 12351

mRNA Refseq NM_007607

Protein Refseq NP_031633

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