

## Recombinant Rat Car3 protein, His & T7-tagged

**Cat. No.** Car3-7834R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Car3 aa. (Asn27~Val217 (Accession # P14141)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	Asn27~Val217
<b>Description</b>	Catalyzes hydration of carbon dioxide; may be involved in cellular response to oxidative stress.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 25.5kDa
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 6.8.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP
<b>Stability</b>	The thermal stability is described by the loss rate of the target protein. The loss rate

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was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	Car3 carbonic anhydrase 3 [ <i>Rattus norvegicus</i> (Norway rat) ]
<b>Official Symbol</b>	Car3
<b>Synonyms</b>	Car3; carbonic anhydrase 3; Ca3; CA-III; carbonate dehydratase III; carbonic anhydrase III
<b>Gene ID</b>	54232
<b>mRNA Refseq</b>	NM_019292.4
<b>Protein Refseq</b>	NP_062165.2
<b>UniProt ID</b>	P14141

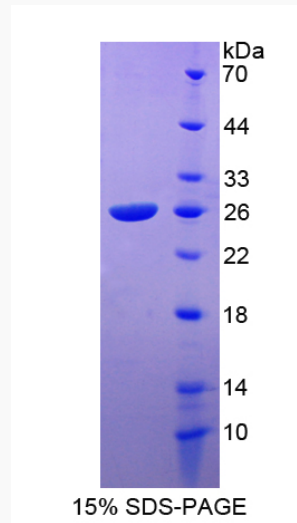
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SDS-PAGE



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