

Active Recombinant Mouse Car10, His-tagged

Cat. No. Car10-1805M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mouse Car10 (Met 1-Asn 300) was expressed, fused with a C-terminal polyhistidine tag.
Species	Mouse
Source	Human Cells
ProteinLength	1-300 a.a.
Description	Carbonic anhydrase X, also called carbonic anhydrase - related protein X (CARPX) and CA10, belongs to the CA family of zinc metalloenzymes which catalyze the reversible hydration of carbon dioxide in various biological processes such as respiration, renal tubular acidification and bone resorption. The secreted protein CARPX without CA activity (hydration of CO₂) is identified as an acatalytic member of the alpha-carbonic anhydrase subgroup. CARP X expression is detected in the adult total brain and almost all parts of the central nervous system, but not in the fetal brain. Accordingly, CARP X is suggested to play a role in the development of central nervous system, especially the brain. The same CARP X protein are encoded by multiple transcript variants of this gene.
Predicted N Terminal	Gln 23
Form	Lyophilized from sterile 25mM Tris, 150mM NaCl, pH 7.4
Bio-activity	Measured by its esterase activity. The specific activity is >10 pmoles/min/μg.

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Molecular Mass	The secreted recombinant mouse Car10 comprises 289 amino acids and has a calculated molecular mass of 33.1 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 38 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Purity	>97 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products.?
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	Car10?carbonic anhydrase 10 [?Mus musculus?(house mouse)]
Official Symbol	Car10
Synonyms	Car10; Ca10; BB085816; 2700029L05Rik; carbonic anhydrase 10; carbonic anhydrase-related protein 10; CARP X; CA-RP X; carbonic anhydrase-related protein X

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Gene ID	72605
mRNA Refseq	NM_028296
Protein Refseq	NP_082572
UniProt ID	P61215
Chromosome Location	11; 11 C
Function	molecular_function

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