

Product datasheet for **TP727081**

Car4 Mouse Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant Mouse Carbonic Anhydrase 4/CAIV/CA4 (C-6His) |
| Species: | Mouse |
| Expression cDNA Clone or AA Sequence: | Glu18-Ser277 |
| Tag: | C-His |
| Buffer: | Supplied as a 0.2 um filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0. |
| Note: | Recombinant Mouse Carbonic anhydrase 4 is produced by our Mammalian expression system and the target gene encoding Glu18-Ser277 is expressed with a 6His tag at the C-terminus. |
| Storage: | Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles. |
| Stability: | 12 months from date of despatch |
| Locus ID: | 12351 |
| UniProt ID: | Q64444 |
| Summary: | Carbonic anhydrase 4(CA4) is an enzyme that belongs to the alpha-carbonic anhydrase family. CA4 consists of a signal peptide (residues1-17), an ectodomain (residues18-277) and a propeptide (residues278-305), which is removed in the mature form. it is predominantly expressed in the embryo. CA4 can catalyzes the reversible reaction of $\text{CO}_2 + \text{H}_2\text{O} = \text{HCO}_3^- + \text{H}^+$, and stimulates the sodium/bicarbonate transporter activity of SLC4A4. Studies have shown that this protein have a role in inherited renal abnormalities of bicarbonate transport. Alpha-carbonic anhydrase family participate in avariety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor. They show extensive diversity in tissue is attribution and in their sub cellular localization. |



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