

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

32-7863: Recombinant Mouse Carbonic Anhydrase 4/CAIV/CA4 (C-6His)

Gene ID: Ca4 **Gene ID:** 12351 **Uniprot ID:** Q64444

Description

Source: Human Cells. MW :30.5kD.

Recombinant Mouse Carbonic anhydrase 4 is produced by our expression system and the target gene encoding Glu18-Ser277 is expressed 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 CO2+H2O=HCO3-+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.

Product Info

Amount: $10 \mu g / 50 \mu g$

Content: Supplied as a 0.2 μm filtered solution of 20mM Tris,150mM NaCl,pH8.0.

Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid: EDSGWCYEIQTKDPRSSCLGPEKWPGACKENQQSPINIVTARTKVNPRLTPFILVGYDQKQQWPIKNNQHTVE

MTLGGGACIIGGDLPARYEAVQLHLHWSNGNDNGSEHSIDGRHFAMEMHIVHKKLTSSKEDSKDKFAVLAFMI EVGDKVNKGFQPLVEALPSISKPHSTSTVRESSLQDMLPPSTKMYTYFRYNGSLTTPNCDETVIWTVYKQPIKIH

KNQFLEFSKNLYYDEDQKLNMKDNVRPLQPLGKRQVFKS

Application Note

Endotoxin: Less than $0.1 \text{ ng/}\tilde{A} \square \hat{A} \mu g$ (1 IEU/ $\tilde{A} \square \hat{A} \mu g$) as determined by LAL test.