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32-7094: Recombinant Human Carbonic Anhydrase 4/CA4 (C-6His)

Gene ID: 762 **Uniprot ID**: P22748

Description

Source: E.coli. MW:31.43kD.

Recombinant Human Carbonic Anhydrase 4 is produced by our E.coli expression system and the target gene encoding Ala19-Lys283 is expressed with a 6His tag at the C-terminus. Carbonic Anhydrase 4 (CA4) belongs to the alpha-carbonic anhydrase family. Alpha-carbonic anhydrase is a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. Carbonic anhydrase 4 is a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Carbonic anhydrase 4 may stimulate the sodium/bicarbonate transporter activity of SLC4A4 that acts in pH homeostasis. It may have a role in inherited renal abnormalities of bicarbonate transport. Furthermore, Carbonic anhydrase 4 is essential for acid overload removal from the retina and retina epithelium and acid release in the choriocapillaris.

Product Info

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

Content: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, pH 8.5.

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

Amino Acid: MAESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINIVTTKAKVDKKLGRFFFSGYDKKQTW

TVQNNGHSVMMLLENKASISGGGLPAPYQAKQLHLHWSDLPYKGSEHSLDGEHFAMEMHIVHEK EKGTSRNVKEAQDPEDEIAVLAFLVEAGTQVNEGFQPLVEALSNIPKPEMSTTMAESSLLDLLPKEE KLRHYFRYLGSLTTPTCDEKVVWTVFREPIQLHREQILAFSQKLYYDKEQTVSMKDNVRPLQQLGQ

RTVIKLEHHHHHH

Application Note

Endotoxin: Less than 0.1 ng/Âμg (1 IEU/Âμg) as determined by LAL test. **Biological Activity**: Specific Activity is greater than 614.96pmol/min/ug