

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

Gene : CA4
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 µg / 50 µg
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 : MAESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINIVTTKAKVDKGLGRFFFSGYDKKQTTWTVQNNGH
SVMMLLENKASISGGGLPAPYQAKQLHLHWSLDPYKGEHSLDGEHFAMEMHIVHEKEKGTSRNVKEAQDPE
DEIAVLAFLEAGTQVNEGFQPLVEALSNIKPEMSTTMAESSLLDLLPKEEKLRYFRYLGSLTTPCDEKVVW
TVFREPIQLHREQILAFSQKLYDKEQTVSMKDNVRPLQQLGQRTVIKLEHHHHHH

Application Note

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