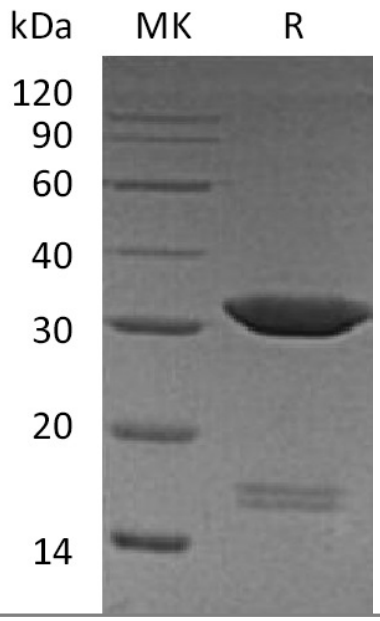
Product Name: Recombinant Human Carbonic Anhydrase 4 (C-6His)
Catalog #: PEH0213

Summary

Name	Carbonic Anhydrase IV/CA4
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	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.
Accession #	P22748
Host	E.coli
Species	Human
Predicted Molecular Mass	31.43 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 100mM NaCl, pH 8.5.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



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Alternative Names

Carbonic Anhydrase 4; Carbonate Dehydratase IV; Carbonic Anhydrase IV; CA-IV; CA4

Background

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.

Note

For Research Use Only , Not for Diagnostic Use.