Recombinant Human CA4 Protein

Cat. No. CA4-812H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA4(Ala19-Lys283) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	19-283 a.a.
Description	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze th e reversible hydration of carbon dioxide. They participate in a variety of biological pro cesses, including respiration, calcification, acid-base balance, bone resorption, and th e formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They sho w extensive diversity in tissue distribution and in their subcellular localization. This ge ne encodes a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of bicarbonate transport.
Form	20mM Tris-HCl, 100mM NaCl, pH 8.5. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Molecular Mass	31.4 kDa
Endotoxin	< 0.1 EU per μg protein as determined by LAL test

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Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	CA4 carbonic anhydrase IV [Homo sapiens]
Official Symbol	CA4
Synonyms	CA4; carbonic anhydrase IV; retinitis pigmentosa 17 (autosomal dominant) , RP17; carbonic anhydrase 4; CAIV; Car4; CA-IV; carbonic dehydratase IV; carbonate dehydratase IV; RP17;
Gene ID	762
mRNA Refseq	NM_000717
Protein Refseq	NP_000708
MIM	114760
UniProt ID	P22748

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