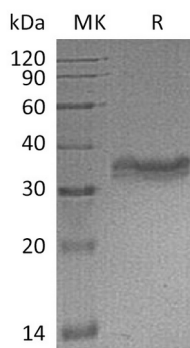


Product Name: Recombinant Mouse Carbonic Anhydrase 4 (C-6His)
Catalog #: PHM0211

概述 (Summary)

英文全称	Carbonic Anhydrase 4/CA4/CA-IV
纯度 (Purity)	Greater than 95% as determined by reducing SDS-PAGE
内毒素 (Endotoxin level)	<1 EU/μg as determined by LAL test.
蛋白构建 (Construction)	Recombinant Mouse Carbonic Anhydrase 4 is produced by our Mammalian expression system and the target gene encoding Glu18-Ser277 is expressed with a 6His tag at the C-terminus.
Accession #	Q64444
蛋白标签 (Tag)	
表达宿主 (Host)	Human Cells
种属 (Species)	Mouse
预测分子量 (Predicted MW)	30.5 KDa
蛋白形态 (Form)	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
储存缓冲液 (Buffer)	
运输方式 (Shipping)	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存 (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.
复溶 (Reconstitution)	

电泳图 (SDS-PAGE image)



背景 (Background)

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分子别名 (Alternative Names)

CA4; CAIV; CA-IV; Car4; Carbonate dehydratase IV; carbonic anhydrase 4; carbonic anhydrase IVRP17; carbonic dehydratase IV; EC4.2.1.1; retinitis pigmentosa 17; RP17

背景介绍 (References)

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 $\text{CO}_2 + \text{H}_2\text{O} = \text{HCO}_3^- + \text{H}^+$, 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.

注意事项 (Note)

For Research Use Only , Not for Diagnostic Use.