Human CA2/Carbonic anhydrase II Protein

Cat. No. CAS-HM102



Description	
Source	Recombinant Human CA2/Carbonic anhydrase II Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Ser2-Lys260.
Accession	P00918
Molecular Weight	The protein has a predicted MW of 30.72 kDa. Due to glycosylation, the protein migrates to 31-35 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 150mM NaCl (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.

Background

Storage

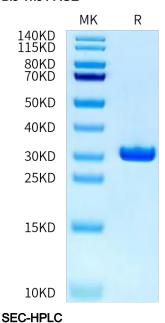
Carbonic anhydrase II (CA II) is a zinc metalloenzyme that catalyzes the reversible interconversion of water and CO2 to bicarbonate and a proton. CA II is abundant in most cells, and plays a role in numerous processes including gas exchange, epithelial ion transport, respiration, extra- and intracellular pH control, and vascular regulation.

-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend

to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Assay Data

Bis-Tris PAGE

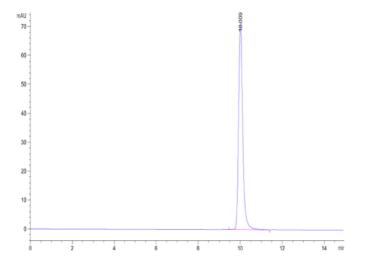


Human CA2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

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Assay Data



The purity of Human CA2 is greater than 95% as determined by SEC-HPLC. $\label{eq:cA2} % \begin{center} \begi$

Bioactivity Data

Measured by its esterase activity. The specific activity is > 400 $pmol/min/\mu g$.