

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 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

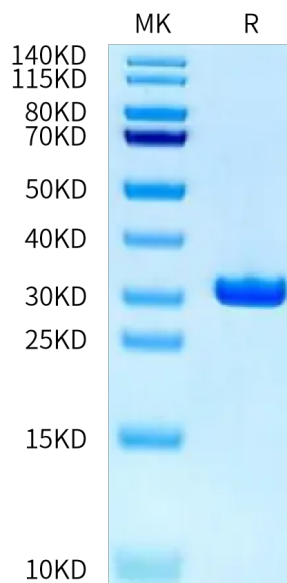
Formulation	Supplied as 0.22 μm filtered solution in 20mM Tris, 150mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Carbonic anhydrase II (CA II) is a zinc metalloenzyme that catalyzes the reversible interconversion of water and CO_2 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.

Assay Data

Bis-Tris PAGE



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

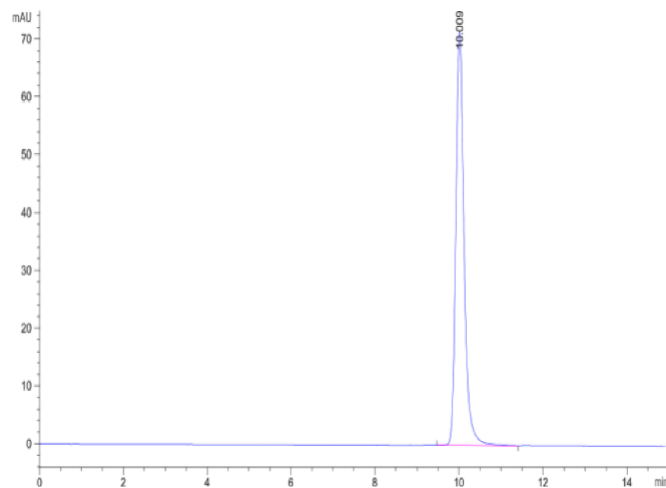
SEC-HPLC

Human CA2/Carbonic anhydrase II Protein

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KACATUS

Assay Data



The purity of Human CA2 is greater than 95% as determined by SEC-HPLC.

Bioactivity Data

Measured by its esterase activity. The specific activity is > 400 pmol/min/μg.