

Cynomolgus CA12/Carbonic anhydrase XII Protein

Cat. No. CAS-CM112

Description

Source	Recombinant Cynomolgus CA12/Carbonic anhydrase XII Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala25-Gly299.
Accession	A0A2K5TSB2
Molecular Weight	The protein has a predicted MW of 32.04 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Carbonic anhydrases (CAs) are a family of enzymes involved in the pH regulation of metabolically active cells/tissues. Carbonic anhydrase XII (CA XII) is a key mediator of several signaling pathways that are involved in cancer development.

Assay Data

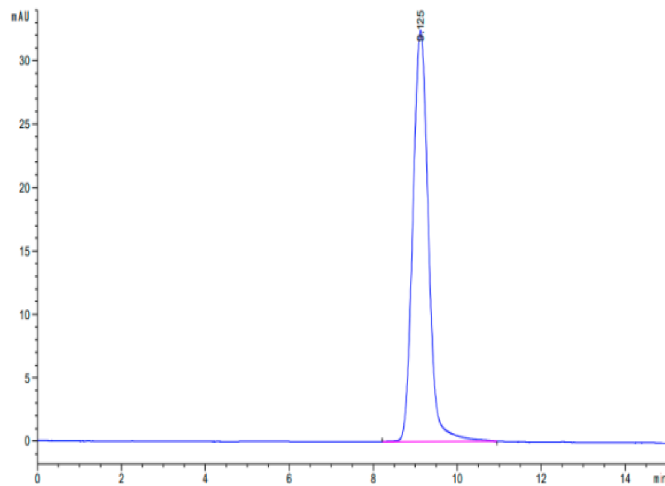
Tris-Bis PAGE



Cynomolgus CA12 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Cynomolgus CA12 is greater than 95% as determined by SEC-HPLC.

Bioactivity Data

Measured by its esterase activity. The specific activity is > 50 pmol/min/μg.