

Human CA12/Carbonic anhydrase XII Protein

Cat. No. CAS-HM212

Description

Source	Recombinant Human CA12/Carbonic anhydrase XII Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus. It contains Ala25-Ser301.
Accession	O43570-1
Molecular Weight	The protein has a predicted MW of 57.06 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

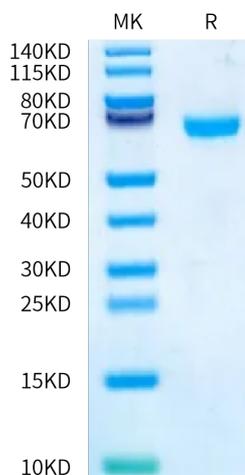
Formulation	Lyophilized from 0.22 μm filtered solution in 25mM Tris, 150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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.

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.

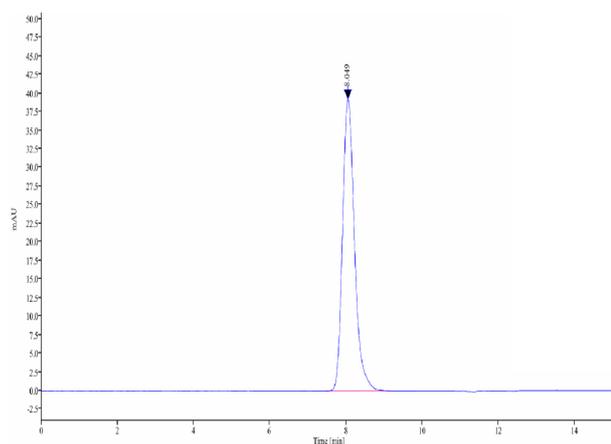
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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