

Datasheet for ABIN7274033
CA12 Protein (AA 25-301) (His tag)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	CA12
Protein Characteristics:	AA 25-301
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA12 protein is labelled with His tag.

Product Details

Purpose:	Human carbonic anhydrase XII Protein
Sequence:	Ala25-Ser301
Characteristics:	Recombinant Human carbonic anhydrase XII Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala25-Ser301.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	CA12
Alternative Name:	carbonic anhydrase XII (CA12 Products)

Target Details

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.
Molecular Weight:	32.22 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.

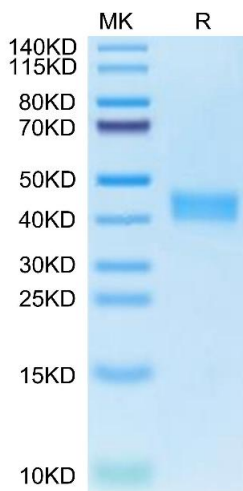
Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-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.
Expiry Date:	12 months

Images



SDS-PAGE

Image 1. Human carbonic anhydrase XII on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human carbonic anhydrase XII is greater than 95 % as determined by SEC-HPLC.

