

Datasheet for ABIN7274015

CA9 Protein (AA 32-390) (His tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CA9
Protein Characteristics:	AA 32-390
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA9 protein is labelled with His tag.

Product Details

Purpose:	Mouse CA9/Carbonic Anhydrase IX Protein
Sequence:	Gln32-Asp390
Characteristics:	Recombinant Mouse CA9/Carbonic Anhydrase IX Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln32-Asp390.
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:	CA9
Alternative Name:	CA9 (CA9 Products)

Target Details

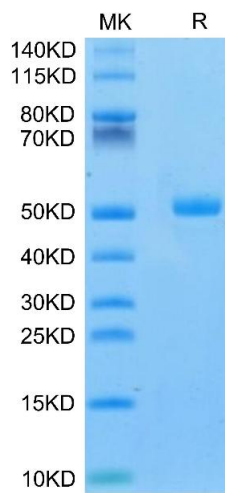
Background:	CA9 is a member of the carbonic anhydrases' family, that is often expressed in cancer cells under hypoxic condition. CA9 expression potentially contributes to the regulation of cancer cell differentiation and mediates tumour-associated genes and signalling pathways, including apoptosis, hypoxia, G2M checkpoint, PI3K/AKR/mTOR signalling and TGF-beta signalling pathways.
Molecular Weight:	43.12 kDa. Due to glycosylation, the protein migrates to 50-53 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_647466

Application Details

Restrictions:	For Research Use only
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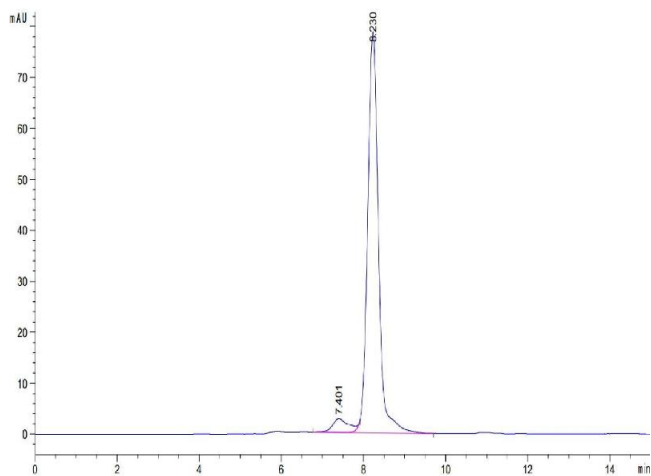
Handling

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



SDS-PAGE

Image 1. Mouse CA9/Carbonic Anhydrase IX 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 Mouse CA9/Carbonic Anhydrase IX is greater than 95 % as determined by SEC-HPLC.