

Biotinylated Human CA9/Carbonic Anhydrase IX Protein



Cat. No. CA9-HM401B

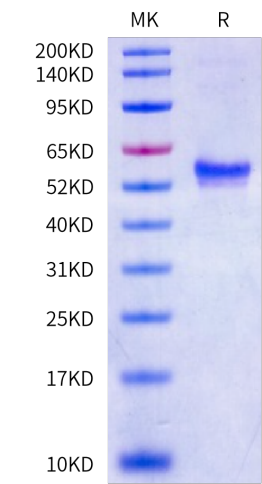
Description	
Source	Recombinant Biotinylated Human CA9/Carbonic Anhydrase IX Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus It contains Gln38-Asp414.
Accession	Q16790
Molecular Weight	The protein has a predicted MW of 43.7 kDa. Due to glycosylation, the protein migrates to 52-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 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	Supplied as 0.22 µm filtered solution in 50mM Tris, 150mM NaCl (pH 7.5).
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	
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.	

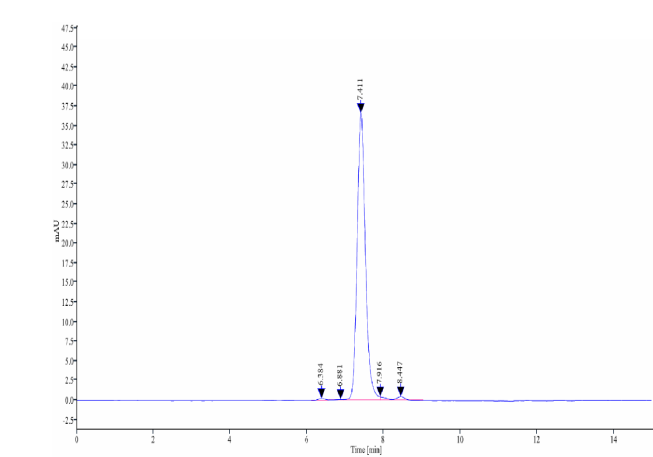
Assay Data

Bis-Tris PAGE



Biotinylated Human CA9 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human CA9 is greater than 95% as determined by SEC-HPLC.

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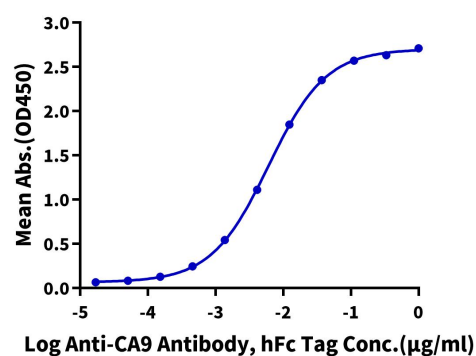


Assay Data

ELISA Data

Biotinylated Human CA9, His Avi Tag ELISA

0.05µg Biotinylated Human CA9, His Avi Tag Per Well



Immobilized Biotinylated Human CA9, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC50 of 6.1ng/ml determined by ELISA.

Bioactivity Data

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