Human CA9/Carbonic Anhydrase IX Protein

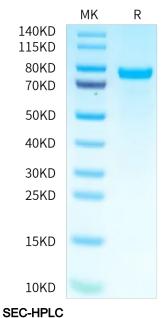
Cat. No. CA9-HM201

Description Recombinant Human CA9/Carbonic Anhydrase IX Protein is expressed from HEK293 with hFc tag at the C-Source terminus. It contains GIn38-Asp414. Accession Q16790 The protein has a predicted MW of 66.91 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Molecular Weight Bis-Tris PAGE result. Endotoxin Less than 1 EU per µg by the LAL method. > 95% as determined by Bis-Tris PAGE Purity > 95% as determined by HPLC Formulation and Storage Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before Formulation lyophilization. Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed Reconstitution instructions. -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution. Recommend Storage 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



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

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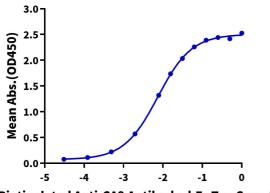
Assay Data

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

KVCJUS



Human CA9, hFc Tag ELISA 0.1µg Human CA9, hFc Tag Per Well



Immobilized Human CA9, hFc Tag at 1μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Anti-CA9 Antibody, hFc Tag with the EC50 of 7.4ng/ml determined by ELISA (QC Test).

Log Biotinylated Anti-CA9 Antibody, hFc Tag Conc.(µg/ml)

Bioactivity Data

Measured by its esterase activity. The specific activity is > 50 pmol/min/ μ g (QC Test).