

BioActive Human CA9 overexpression Recombinant Protein,Fc Tag

Catalog Number:SGRP00691

DESCRIPTION	
Product Name	BioActive Human CA9 overexpression Recombinant Protein,Fc Tag
Gene Name	CA9
Source	Full length Human BRD4-C15orf55 fusion, expressed in HEK293 cells.
Alternative names	
SPECIFICATIONS	
Biological Activity	Fully biologically active
Purity	> 95% by SDS-PAGE & HPLC
Endotoxin Level	< 1.0 EU per µg protein as determined by the LAL method
Expression System	HEK293 Cells
Format	Recombinant
Species	Human
Predicted MW	
Actual MW	
Applications	Sandwich ELISA Functional Studies Mass Spectrometry SDS-PAGE HPLC
Form	Lyophilized from sterile PBS, pH 7.74
Concentration	N/A
Stability and Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Reconstitute with Phosphate Buffered Saline.
BACKGROUND	
Gene Accession	Q16790
Gene Alias	Protein names Recommended name Carbonic anhydrase 9 EC number EC:4.2.1.1 6 Publications (UniProtKB ENZYME Rhea) Alternative names Carbonate dehydratase IX Carbonic anhydrase IX (CA-IX; CAIX) Membrane antigen MN P54/58N Renal cell carcinoma-associated antigen G250 (RCC-associated antigen G250) pMW1 Gene names Name CA9 Synonyms G250, MN

types of cancer including clear cell renal cell carcinoma (RCC) as well as carcinomas of the cervix, breast and lung where it promotes tumor growth by enhancing tumor acidosis.

Background

Carbonic anhydrase IX (CA9/CA IX) is an enzyme that in humans is encoded by the CA9 gene. It is one of the 14 carbonic anhydrase isoforms found in humans and is a transmembrane dimeric metalloenzyme with an extracellular active site that facilitates acid secretion in the gastrointestinal tract. CA IX is overexpressed in many