Recombinant Protein Technical Manual

Recombinant Human CA5A/CA-VA Protein (His Tag)(Active)

RPES2596

Product Data:

Product SKU: RPES2596

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: NP_001730.1

Protein Information:

Molecular Mass:	31.6 kDa
AP Molecular Mass:	33 kDa
Tag:	C-His
Bio-activity:	Measured by its esterase activity. The specific activity is >500 pmoles/min/µg.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Endotoxin:	Please contact us for more information.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile 50mM NaAc, 50mM NaCl, 0.05% Brij 35, pH 5.0
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	CA5;CA5AD;CA5D;Carbonic Anhydrase VA;CAV;CAVA;GS1-21A4.1

Immunogen Information:

Sequence: Ala 40-Ser 305

Background:

Carbonic anhydrase 5A, mitochondrial, also known as Carbonate dehydratase VA, Carbonic anhydrase VA, CA-VA and CA5A, is a member of the alpha-carbonic anhydrase family. Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes first discovered in 1933 that catalyze the reversible hydration of carbon dioxide. CAs participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. CA5A / CA-VA is activated by histamine, L-adrenaline, L- and D-histidine, and L- and D-phenylalanine. It is inhibited by coumarins, sulfonamide derivatives such as acetazolamide and Foscarnet (phosphonoformate trisodium salt).