Recombinant Human Carbonic Anhydrase 10/CA10 Protein (E.coli, His Tag)

Catalog Number: PKSH032158

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

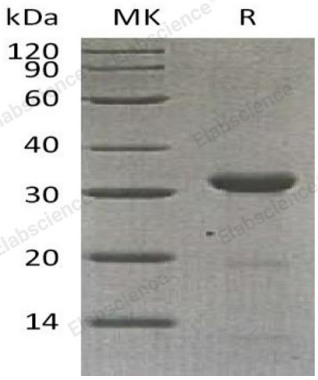
Description

Species	Human
Source	E.coli-derived Human Carbonic Anhydrase 10;CA10 protein Ala21-Asn300, with an C-terminal His
Calculated MW	33.0 kDa
Observed MW	31 kDa
Accession	Q9NS85
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. 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 a 0.2 μm filtered solution of 25mM Tris-HCl, 150mM NaCl, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Carbonic Anhydrase-Related Protein 10 (CA10) protein belongs to the carbonic anhydrase family of zinc metalloenzyme s. It is an acatalytic member of the alpha-carbonic anhydrase subgroup. CA10 expression is detected in the adult total brain and in almost all parts of the central nervous system; but it is not expressed in the fetal brain. CA10 catalyze the reversible hydration of carbon dioxide in various biological processes; which is fundamental to many processes such as respiration; renal tubular acidification and bone resorption. CA10 is thought to play a role in the central nervous system; especially in brain development.