

Carbonic Anhydrase 12 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	CAXII;FLJ20151;carbonic anhydrase XII;HsT18816;CA12
Protein Construction:	Ala25-Ser301
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O43570-1
Molecular Weight:	32.22 kDa (Predicted); 40-50 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Measured by its esterase activity. The specific activity is > 40 pmol/min/μg. (QC Test)
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Carbonic anhydrases (CAs) are a family of enzymes involved in the pH regulation of metabolically active cells/tissues. Carbonic anhydrase XII (CA XII) is a key mediator of several signaling pathways that are involved in cancer development.

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