

## Carbonic Anhydrase 2 Protein, Human, Recombinant (HEK293, His)

## General Information

Synonyms:	Carbonic anhydrase C (CAC);Carbonic anhydrase 2;CA2;Carbonic anhydrase II (CA-II); Carbonate dehydratase II;Cyanamide hydratase CA2
Protein Construction:	1-260 aa
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P00918
Molecular Weight:	30.7 kDa (Predicted)
AA Sequence:	MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDHTAKYDPSLKPLSVSYDQATSLRILNNGHAFNVEFD DSQDKAVLKGGPLDGTYRLIQFHFHWGSLDGQGSEHTVDKKKYAAELHLVHWNTKYGDFGKAVQQPDGLA VLGIFLKVGSAPGLQKVVDVLDSIKTKGKSADFTNFDPRGLLPESLDYWTYPGSLTTPPLLECVTWIVLKEPIS VSSEQVLKFRKLNFNNGEGEPEELMVDNWRPAQPLKNRQIKASFK

## QC Testing

Biological Activity:	Measured by its esterase activity. The specific activity is >2600 pmol/min/μg.
Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered 20 mM Tris-HCl,0.5 M NaCl,6% Trehalose, pH 8.0.

## 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 &amp; 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.

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