

Carbonic Anhydrase 11 Protein, Human, Recombinant (His)

General Information

Synonyms:	Carbonic Anhydrase-Related Protein 2;CARP XI;CA11;CARP-2;Carbonic Anhydrase-Related Protein 11;CA-XI;CARP2;CA-RP XI;CA-RP II
Protein Construction:	His24-Arg328
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75493
Molecular Weight:	38 KDa (reducing condition)
AA Sequence:	His24-Arg328

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

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:

Proteins are shipped with blue ice.

Protein Background

Carbonic Anhydrase-Related Protein 11 (CA11) is a secreted protein member of the α -carbonic anhydrase family. Carbonic Anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They 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. CA11 is expressed abundantly in the brain with moderate expression also present in spinal cord and thyroid. CA11 may play a general role in the central nervous system.

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