

## Functional Aspects of Carbonic Anhydrase

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**Abstract :** Carbonic anhydrase is ubiquitously distributed in organisms, and is fundamental to many eukaryotic biological processes such as photosynthesis, respiration, CO<sub>2</sub> and ion transport, calcification and acid-base balance. However, CA occurs across the spectrum of prokaryotic metabolism in both the archaea and bacteria domains and many individual species contain more than one class. In this review, various roles of CA involved in cellular mechanism are presented to find out the CA functions applicable for industrial use.

**Keywords :** carbonic anhydrase, mechanism, CO<sub>2</sub> sequestration, respiration

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