

Recombinant Human CA12 Protein

Cat. No. CA12-805H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Carbonic Anhydrase XII, Variant 2 was expressed in Sf9 insect cells.
Species	Human
Source	Insect Cells
Description	Carbonic anhydrases (CAs) are enzymes which catalyze the reversible hydration of carbon dioxide according to the following reaction: $\text{CO}_2 + \text{H}_2\text{O} \leftrightarrow \text{HCO}_3^- + \text{H}^+$. The main function of this protein family is to regulate the acid-base balance, which is of a considerable biological importance. In addition, they participate in several other physiological functions including CO_2 and HCO_3^- transport, bone resorption, production of biological fluids, ureagenesis, gluconeogenesis and lipogenesis. Carbonic anhydrases are metalloenzymes containing a zinc-atom in their active site. The expanding CA gene family includes at least 13 enzymatically active members with different structural and catalytic properties. His-tag removed.
Form	50 mM Tris-HCl pH 7.5 and 0.05 M NaN_3 , pH 7.5
Molecular Mass	30 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95 % (SDS-PAGE under reducing conditions)
Storage	Store at -80 centigrade, avoid freeze/thaw cycles.
AA Sequence	GS (residues remained after His-tag removal) APVNGSKWTFYFGPDGENSWSKKYP SCGGLLQSPIDLHSDILQYDASLTPLFQGYNLSANKQFLLTNNGHSVKLNLPSDMHI QGLQSRYSATQLHLHWGNPNDPHGSEHTVSGQHFAAELHIVHYNSDLYPDASTAS NKSEGLAVLAVLIEMGSFNPSYDKIFSHLQHVKYKGQEA FVPGFNIEELLPERTAEYY RYRGSLLTPPCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFR QVQKFDERLVYTSFSQ

GENE INFORMATION

Gene Name	CA12 carbonic anhydrase XII [Homo sapiens]
Official Symbol	CA12
Synonyms	CAXII; CA-XII; T18816; HsT18816
Gene ID	771
mRNA Refseq	NM_001218.4
Protein Refseq	NP_001209.1
MIM	603263
UniProt ID	O43570

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