

Product Data Sheet

CA12/Carbonic Anhydrase 12 Protein, Human (P.pastoris, His)

Cat. No.: HY-P71720

CA 12; CA XII; CA12; Carbonic anhydrase XII; Carbonic dehydratase; CAXII; FLJ20151; HsT18816; Synonyms:

T18816; Tumor antigen HOM RCC 3.1.3; Tumor antigen HOM-RCC-3.1.3

Species: Human Source: P. pastoris

Accession: O43570 (25A-301S)

Gene ID: 771

Molecular Weight: Approximately 33.1 kDa

PROPERTIES

AA Sequence				
·	APVNGSKWTY	FGPDGENSWS	KKYPSCGGLL	QSPIDLHSDI
	LQYDASLTPL	EFQGYNLSAN	KQFLLTNNGH	SVKLNLPSDM
	HIQGLQSRYS	ATQLHLHWGN	PNDPHGSEHT	VSGQHFAAEL
	HIVHYNSDLY	PDASTASNKS	EGLAVLAVLI	EMGSFNPSYD
	KIFSHLQHVK	YKGQEAFVPG	FNIEELLPER	TAEYYRYRGS
	LTTPPCNPTV	LWTVFRNPVQ	ISQEQLLALE	TALYCTHMDD
	PSPREMINNF	RQVQKFDERL	$V\ Y\ T\ S\ F\ S\ Q\ V\ Q\ V$	CTAAGLS
Biological Activity	The enzyme activity of thi	s recombinant protein is tes	ting in progress, we cannot	offer a guarantee vet

Room temperature in continental US; may vary elsewhere.

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.		
Appearance	Lyophilized powder.		
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HC1, 0.5 M NaCl, 6% Trehalose, pH 8.0		
Endotoxin Level	<1 EU/µg, determined by LAL method.		
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH ₂ O.		
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.		

DESCRIPTION

Shipping

Background

The CA12 protein, also known as Carbonic Anhydrase 12, plays a pivotal role in the reversible hydration of carbon dioxide. This enzyme catalyzes the conversion of carbon dioxide to bicarbonate ions and protons, contributing significantly to essential physiological processes. Its enzymatic activity is integral to the regulation of pH levels, aiding in the maintenance of acid-base balance within the body. As a member of the carbonic anhydrase family, CA12 is involved in the fundamental

biochemical reactions related to carbon dioxide transport and buffering in tissues, underscoring its importance in cellular homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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