

Product Data Sheet

Carbonic Anhydrase 4 Protein, Human (His)

Cat. No.:	HY-P7720
Synonyms:	rHuCarbonic Anhydrase 4, His; Carbonic Anhydrase 4; Carbonate Dehydratase IV; Carbonic Anhydrase IV; CA4
Species:	Human
Source:	E. coli
Accession:	P22748 (A19-K283)
Gene ID:	762
Molecular Weight:	Approximately 30.0 kDa

PROPERTIES					
KOI EKITES					
Sequence					
	AESHWCYEVQ	AESSNYPCLV	P V K W G G N C Q K	DRQSPINI	
	ТКАКVDККLG	RFFFSGYDKK	Q T W T V Q N N G H	SVMMLLEN	
	SISGGGLPAP	YQAKQLHLHW	SDLPYKGSEH	SLDGEHFA	
	МНІVНЕКЕКС	TSRNVKEAQD	PEDEIAVLAF	LVEAGTQV	
	GFQPLVEALS	NIPKPEMSTT	MAESSLLDLL	PKEEKLRH	
	RYLGSLTTPT	CDEKVVWTVF	REPIQLHREQ	ILAFSQKL	
	D K E Q T V S M K D	NVRPLQQLGQ	R T V I КННННН	Н	
gical Activity	The enzyme activity of thi	s recombinant protein is tes	ting in progress, we cannot	offer a guarantee yet.	
arance	Solution.				
nulation	Supplied as a 0.2 μm filter solution of 20 mM Tris-HCl, 100 mM NaCl, pH 8.5.				
dotoxin Level	<1 EU/µg, determined by LAL method.				
econsititution	N/A				
orage & Stability	Stored at -80°C for 1 year.	It is stable at -20°C for 3 mo	nths after opening. It is reco	mmended to freeze al	
	extended storage. Avoid r	epeated freeze-thaw cycles.			
nipping	Shipping with dry ice.				

DESCRIPTION

Background

The human carbonic anhydrase IV (CA4) gene, located on chromosome 17q22, was the first identified membrane-bound isozyme in the 16-member carbonic anhydrase (CA) gene family and contains 1,170 base pairs. The CA4 enzyme is involved in the formation of gastric acid and participates in acid-base homeostasis. CA4 is expressed in normal human stomach tissues. CA4 may serve an important role in gastric cancer (GC) tumorigenesis by inhibiting cellular proliferation via

regulating the expression of cell cycle⊠associated proteins. CA4 may serve as a diagnostic biomarker and a potential therapeutic target in GC^[1].

REFERENCES

[1]. Bujiang Wang, et al. Carbonic anhydrase IV inhibits cell proliferation in gastric cancer by regulating the cell cycle. Oncol Lett. 2020 Oct;20(4):4.

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

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