

Carbonic Anhydrase 13 Protein, Human (His)

Cat. No.:	HY-P7726
Synonyms:	rHuCarbonic Anhydrase 13, His; Carbonic Anhydrase 13; Carbonate Dehydratase XIII; Carbonic Anhydrase XIII; CA13
Species:	Human
Source:	E. coli
Accession:	Q8N1Q1 (M1-F261)
Gene ID:	377677
Molecular Weight:	Approximately 32.0 kDa

PROPERTIES

AA Sequence	<p>MSRLSWG YRE HNGPIHWKEF FPIADGDQQS PIEIKTKEVK</p> <p>YDSSLRPLSI KYDPSSAKII SNSGHSFNVD FDDTENKSVL</p> <p>RGGPLTGSYR LRQVHLHWGS ADDHGSEHIV DGVSYAAELH</p> <p>VVHWNSDKYP SFVEAAHEPD GLAVLG VFLQ IGEPNSQLQK</p> <p>ITDTLDSIKE KGKQTRFTNF DLLSL LPPSW DYWTYPGSLT</p> <p>VPPLLESVTW IVLKQPINIS SQQ LAKFRSL LCTAEGEAAA</p> <p>FLVSNHRPPQ PLKGRKVRAS FHHHHHHH</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The cytosolic isoform XIII is a recently discovered member of the human carbonic anhydrase (hCA, EC 4.2.1.1) family. It is selectively expressed among other tissues in the reproductive organs, where it may control pH and ion balance regulation, ensuring thus proper fertilization conditions ^[1] .
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REFERENCES

[1]. Anna Di Fiore, et al. Crystal structure of human carbonic anhydrase XIII and its complex with the inhibitor acetazolamide. Proteins. 2009 Jan;74(1):164-75.

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

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