

Recombinant Human CA13 Protein

Cat. No. CA13-806H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA13 was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	PBS and 0.05 M NaN_3
Molecular Mass	29 kDa
Purity	> 95 % (SDS-PAGE under reducing conditions)

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Storage	Store at -80 centigrade, avoid freeze/thaw cycles.
AA Sequence	RGSMSRLSWG YREHNGPIHWKEFFPIADGDQQSPIEIKTKEVKYDSSLRPLSIKYDP SSAKIISNSGHSFNVD FDDTENKSVLRGGPLTGSYRLRQVHLHWGSADDHGSEHIV DGVSYAAELHVVHWN SDKYP SFVEAAHEPDGLAVLGVFLQIGEPNSQLQKITDTLDS IKEKGKQTRFTNFDLLSLLPPSWDYWTYPGSLTVPPLESVTWIVLKQPINISSQQLA KFRSLLCTAEGEAAAFLVSNHRPPQPLKGRKVRASFH
GENE INFORMATION	
Gene Name	CA13 carbonic anhydrase XIII [Homo sapiens]
Official Symbol	CA13
Synonyms	CAXIII
Gene ID	377677
mRNA Refseq	NM_198584.2
Protein Refseq	NP_940986.1
MIM	611436
UniProt ID	Q8N1Q1