Native Human CA6

Cat. No. CA6-804H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human CA6 was isolated from human milk.
Species	Human
Source	Human milk
Description	Carbonic anhydrases (CAs) are enzymes which catalyze the reversible hydration of carbon dioxide according to the following reaction: $CO_2 + H_2O \leftrightarrow HCO_3^- + H^+$. 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. Purified by CA inhibitor affinity chromatography.
Form	0.1 M Tris-SO_4 pH 7.0, 0.4 M NaN_3, 1 mM Benzamidine and 20 % glycerol, pH 7.0
Molecular Mass	35 kDa

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Purity	> 95 % (SDS-PAGE under reducing conditions)
Storage	Store at -80 centigrade, avoid freeze/thaw cycles.
AA Sequence	MRALVLLLSLFLLGGQAQHVSDWTYSEGALDEAHWPQHYPACGGQRQSPINLQRT KVRYNPSLKGLNMTGYETQAGEFPMVNNGHTVQISLPSTMRMTVADGTVYIAQQM HFHWGGASSEISGSEHTVDGIRHVIEIHIVHYNSKYKSYDIAQDAPDGLAVLAAFVEV NYPENTYYSNFISHLANIKYPGQRTTLTGLDVQDMLPRNLQHYYTYHGSLTTPPCTE NVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLNHRVVESNFPNQE YTLGSEFQFYLHKIEEILDYLRRALN

GENE INFORMATION

Gene Name	CA6 carbonic anhydrase VI [Homo sapiens]
Official Symbol	CA6
Synonyms	CA-VI; GUSTIN
Gene ID	765
mRNA Refseq	NM_001215.3
Protein Refseq	NP_001206.2
MIM	114780
UniProt ID	P23280

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