

## Carbonic Anhydrase XII Human Recombinant

<b>Item Number</b>	rAP-0868
<b>Synonyms</b>	Carbonic anhydrase 12, Carbonate dehydratase XII, Carbonic anhydrase XII, CA-XII, Tumor antigen HOM-RCC-3.1.3, CA12, Carbonic Anhydrase XII, Carbonic anhydrase 12 isoform 1, CAXII, HsT18816.
<b>Description</b>	CA12 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 283 amino acids (25-301a.a.) and having a molecular mass of 31.94kDa (Migrates at 28-40kDa on SDS-PAGE under reducing conditions).CA12 is fused to a 6 amino acid His-tag at C-terminus &
<b>Uniprot Accesion Number</b>	O43570
<b>Amino Acid Sequence</b>	APVNGSKWTY FGPDGENSWS KKYPSCGGLL QSPIDLHSDI LQYDASLTPL EFQGYNLSAN KQFLLTNNGH SVKLNLPSDM HIQGLQSRYS ATQLHLHWGN PNDPHGSEHT VSGQHFAAEL HIVHYNSDLY PDASTASNKs EGLAVLAVLI EMGSFNPSYD KIFSHLQHVK YKGQEA FVPG FNI EELLPER TAEYRYRGS LTTPPCNPTV LWTVFRNPVQ ISQEQLLAL E TALYCTHMDD PSPREMINNF RQVQKF- DERL VYTSFSQVQV CTAAGLSHHH HHH.
<b>Source</b>	Sf9, Baculovirus cells.
<b>Physical Appearance and Stability</b>	Sterile Filtered clear solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
<b>Formulation and Purity</b>	CA12 protein solution (0.5mg/ml) containing Phosphate Buffer Saline (pH7.4) and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	Specific activity is $\geq$ 300 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of 4-nitrophenyl acetate to 4-nitrophenol per minute at pH 7.5 at 37C.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**