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## Product Data Sheet

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Product Name: CA14 Human  
 Cat. No.: GP21459  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Carbonic anhydrase 14; Carbonate dehydratase XIV; Carbonic anhydrase XIV; CA-XIV; CA14; CAXiV.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSADGGQHW TYEGPHGQDH WPASYPECGN NAQSPIDIQT DSVTFDPDLP ALQPHGYDQP GTEPLDLHNN GHTVQLSLPS TLYLGGLPRK YVAAQLHLHW GQKGSPGGSE HQINSEATFA ELHIVHYDSD SYDSLSEAAE RPQGLAVLGI LIEVGETKNI AYEHILSHLH EVRHKDQKTS VPPFNLRELL PKQLGQYFRY NGLSTTPPCY QSVLWTVFYR RSQISMEQLE KLQGTLFSTE EEPKLLVQN YRALQPLNQR MVFASFIQAG SSYTTGEM.		
Formulation	CA14 protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

CA14 is a part of the Carbonic anhydrases family. Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes which catalyze the reversible hydration of carbon dioxide. They present wide variety in tissue distribution and in their subcellular localization. CA14 is a type I membrane protein which shares highest sequence similarity with the other transmembrane CA isoform, CA XII. Nevertheless, they have different patterns of tissue-specific expression and therefore take different physiologic parts.

### Stability

NPL Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C . Please prevent freeze thaw cycles.

### Background

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

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CA14 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 298 amino acids (16-290 a.a.) and having a molecular mass of 33.2kDa. CA14 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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