

## CA8 Human

**Description:**CA8 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 314 amino acids (1-290) and having a molecular mass of 35.5kDa.CA8 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-242

For research use only.

**Synonyms:**Carbonic anhydrase VIII, CALS, CARP, CA-VIII, CAMRQ3, CA-related protein, carbonate dehydratase, carbonic anhydrase-like sequence, carbonic anhydrase-related protein.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHMADLSF IEDTVAFPEK  
EEDEEEEEEG VEWGYEEGVE WGLVFPDANG EYQSPINLNS REARYDPSLL DVRLSPNYVV  
CRDCEVTNDG HTIQVILKSK SVLSGGPLPQ GHEFELYEVR FHWGRENQRG SEHTVNFKAF  
PMELHLIHWN STLFGSIDEA VGKPHGIAII ALFVQIGKEH VGLKAVTEIL QDIQYKGKSK  
TIPCFNPNTL LP

**Purity:**Greater than 90% as determined by SDS-PAGE.

### Formulation:

The CA8 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 20% glycerol.

### Stability:

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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

CA8 was first called CA-related protein since there is a sequence similarity to other identified carbonic anhydrase genes. Still, this protein has no carbonic anhydrase activity - the reversible hydration of carbon dioxide. CA8 still holds a carbonic anhydrase designation due to obvious sequence similarity to other members of the carbonic anhydrase gene family. Mutations in CA8 result in cerebellar ataxia mental retardation and dysequilibrium syndrome type 3 (CMARQ3).

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