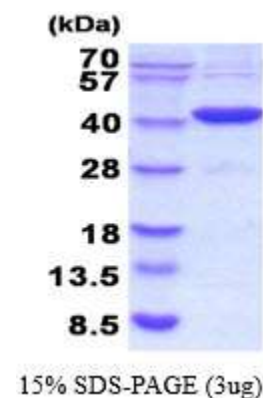


## Carbonic anhydrase-8/CA8, human recombinant

<b>CATALOG NO:</b>	P1047-10	10 µg
	P1047-50	50 µg
<b>ALTERNATE NAMES:</b>	CA-VIII, CALS, CAMRQ3, CARP, CA8	
<b>CONCENTRATION:</b>	1 mg/ml (determined by Bradford assay)	
<b>SOURCE:</b>	<i>E.coli</i> expressed recombinant CA8 protein, fused to His-tag at N-terminus (1-290aa).	
<b>PURITY:</b>	> 90% by SDS-PAGE	
<b>MOL. WEIGHT:</b>	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 35.5 kDa (314aa).	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 20% glycerol	
<b>STORAGE CONDITIONS:</b>	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.	
<b>SEQUENCE:</b>	<p>MGSSHHHHHH SSGLVPRGSH MGSHMADLSF IEDTVAFPEK          EEDEEEEEEG VEWGYEEGVE WGLVFPDANG EYQSPINLNS          REARYDPSLL DVRLSPNYVV CRDCEVTNDG HTIQVILKSK          SVLSGGPLPQ GHEFELYEVR FHWGRENQRG SEHTVNFKAF          PMELHLIHWN STLFGSIDEA VGKPHGIAII ALFVQIGKEH          VGLKAVTEIL QDIQYKGKSK TIPCFNPNTL LPDPLLRDYW          VYEGSLTIPP CSEGVTWILF RYPLTISQLQ IEEFRRLRTH          VKGAELVEGC DGILGDNFRP TQPLSDRVIR AAFQ</p>	
<b>DESCRIPTION:</b>	<p>CA8 was initially named CA-related protein because of sequence similarity to other known carbonic anhydrase genes. However, this protein lacks carbonic anhydrase activity (i.e., the reversible hydration of carbon dioxide). It continues to carry a carbonic anhydrase designation based on clear sequence identity to other members of the carbonic anhydrase gene family. Defects in CA8 are the cause of cerebellar ataxia mental retardation and dysequilibrium syndrome type 3 (CMARQ3). Recombinant human CA8 protein fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography.</p>	
<b>BIOLOGICAL ACTIVITY:</b>	<p>Specific activity is &gt;450 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.</p>	



Human recombinant CA8

### RELATED PRODUCT:

- Human CellExp™ CA2, human recombinant (Cat. No. 7479-10, -50)
- Human CellExp™ CA4, human recombinant (Cat. No. 7484-10)
- Human CellExp™ CA9, human recombinant (Cat. No. 7478-10)
- Human CellExp™ CA10, human recombinant (Cat. No. 7485-10)
- Human Recombinant Carbonic anhydrase 2 (Cat. No. 6390-100)
- Carbonic Anhydrase 3 /CA3, human recombinant (Cat. No. 7833-10, -50)
- MMP-1, human recombinant (Cat. No. 7781-10, 50, 1000)
- MMP-2, human recombinant (Cat. No. 7782-10, 50, 1000)
- MMP-3, human recombinant (Cat. No. 7783-10, 50, 1000)
- MMP-9, human recombinant (Cat. No. 7789-10, 50, 1000)

**FOR RESEARCH USE ONLY! Not to be used on humans.**