

Recombinant Human CA11, His-tagged

Cat. No. CA11-50H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Carbonic Anhydrase-Related Protein 11/CA11 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (His34-Arg328) of Human CA11 fused with a 6His tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	34-328 a.a.
Description	Carbonic Anhydrase-Related Protein 11 (CA11) is a secreted protein member of the α -carbonic anhydrase family. Carbonic Anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. CA11 is expressed abundantly in the brain with moderate expression also present in spinal cord and thyroid. CA11 may play a general role in the central nervous system.
AA Sequence	HIGPAPDPEDWWSYKDNLQGNFVPGPPFWGLVNAAWSLCAVGKRQSPVDVELKR VLYDPFLPPLR LSTGGEKLRGTLYNTGRHVSFLPAPRPVVNVSGGPLYSHRLSEL RLLFGARDGAGSEHQINHQG FSAEVQLIHFNQELYGNFSAASRGPNGLAILSLFVNV ASTSNPFLSRLNDRDTITRISYKNDAYF LQDLSLELLFPESFGFITYQGSLSLTPPCSET

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VTWILIDRALNITSLQMHSRLRLSQNPSSQIFQS LSGNSRPLQPLAHRALRGNRDPR
HPERRCRGPNYRLHVDGVPHGRVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name CA11 carbonic anhydrase XI [Homo sapiens]

Official Symbol CA11

Synonyms CA11; carbonic anhydrase XI; carbonic anhydrase-related protein 11; CA RP XI; carbonic anhydrase related protein 2; carbonic anhydrase related protein XI; CARP2; CARPX1; CA-XI; CARP-2; CARP XI; CA-RP II; carbonic anhydrase-related protein 2; carbonic anhydrase-related protein XI;

Gene ID 770

mRNA Refseq NM_001217

Protein Refseq NP_001208

MIM 604644

UniProt ID O75493

Chromosome Location 19q13.3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

NOT carbonate dehydratase activity;

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA