

Active Recombinant Canine CA9 Protein, His-tagged

Cat. No. CA9-1039C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant canine CA9 (NP_001138646.1) (Met1-Leu410) was expressed with a C-terminal polyhistidine tag.
Species	Canine
Source	HEK293
ProteinLength	1-410 a.a.
Predicted N Terminal	Gln 38
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its esterase activity. The specific activity is >100 pmoles/min/μg.
Molecular Mass	The recombinant canine CA9 comprises 384 amino acids and has a predicted molecular mass of 42.1 kDa. The apparent molecular mass of the protein is approximately 50 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	>85 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.

 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

Storage Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name CA9 carbonic anhydrase IX [*Canis lupus familiaris*]

Official Symbol CA9

Synonyms carbonic anhydrase 9;

Gene ID 611933

mRNA Refseq NM_001145174

Protein Refseq NP_001138646

MIM

UniProt ID

Chromosome Location chromosome: 11

Pathway Metabolism, organism-specific biosystem; Nitrogen metabolism, organism-specific biosystem; Reversible hydration of carbon dioxide, organism-specific biosystem

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