Active Recombinant Canine CA9 Protein, His-tagged, Alexa Fluor 647 conjugated

Cat. No. CA9-1039CAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 647 conjugated recombinant canine CA9 (NP_001138646.1) (Met1-Leu410) was expressed with a C-terminal polyhistidine tag.
Species	Dog
Source	HEK293
ProteinLength	384
Form	Lyophilized
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.
N-terminal Sequence Analysis	Gln 38
Endotoxin	< 1.0 EU/ μg of the protein as determined by the LAL method.
Purity	> 85 % as determined by SDS-PAGE

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Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Stability	Samples are stable for up to 12 months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 to-70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH 7.4, 5%-8% trehalose and mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 647

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

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