Canine ALK-1 / ACVRL1 (Fc Tag) recombinant protein

Catalog Number: 501495

General Information

Protein Construction

A DNA sequence encoding the canine ACVRL1(E2R174) (Met1-Gln119) was expressed with the Fc region of human IgG1 at the C-terminus.

Organism

Canine

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to inhibit BMP9 induced alkaline phosphatase production by MC3T3-E1 cells.
The ED_{50} for this effect is typically 5-15 ng/mL in the presence of 2 ng/mL of recombinant human BMP-9.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Predicted N terminal

Gly 22

Molecular Mass

The recombinant canine ACVRL1/Fc is a disulfide-linked homodimer. The reduced monomer comprises 339 amino acids and has a predicted molecular mass of 37.9 kDa. The apparent molecular mass of the protein is approximately 43-47 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4.
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

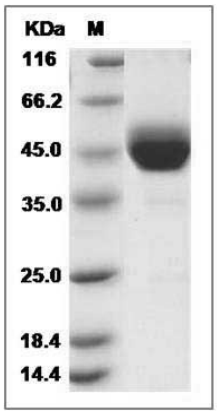
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Canine ALK1 / ACVRL1 Protein (Fc Tag) SDS-PAGE