Canine EGF Protein

Cat. No. EGF-DE101

Description

Source	Recombinant Canine EGF Protein is expressed from E.coli with His tag at the N-terminus.
	It contains Asn973-Arg1024.
Accession	Q9BEA0
Molecular Weight	The protein has a predicted MW of 13.61 kDa. The protein migrates to 16-22 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

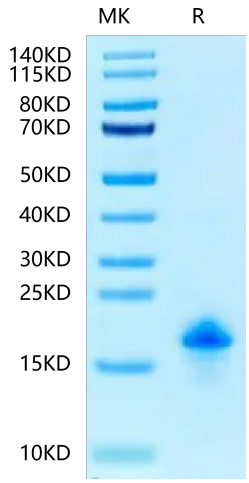
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The epidermal growth factor (EGF) family of peptides encodes several proteins that can function as growth factors. The EGF-like peptides, with the exception of proteins of the EGF-CFC subfamily, bind and activate tyrosine kinase receptors that belong to the erbB family.

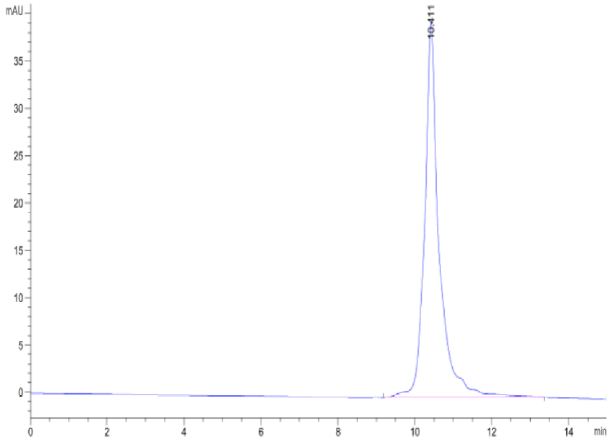
Assay Data

Tris-Bis PAGE



Canine EGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Canine EGF is greater than 95% as determined by SEC-HPLC.

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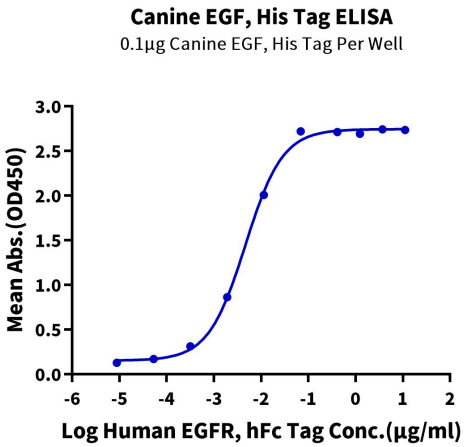
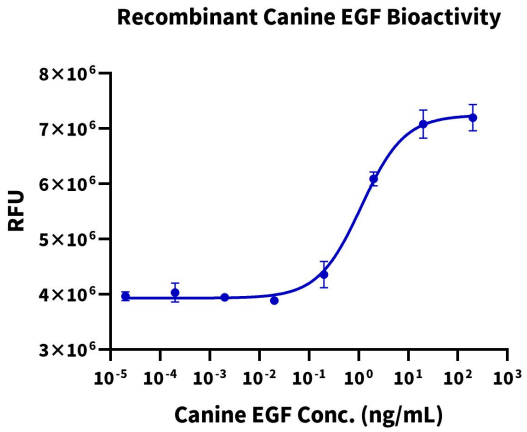
Assay Data

ELISA Data



Immobilized Canine EGF, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human EGFR, hFc Tag with the EC50 of 4.7ng/ml determined by ELISA (QC Test).

Cell Based Assay



Measured in a cell proliferation assay using Balb 3T3 mouse embryonic fibroblasts. The EC50 for this effect is typically 0.5 - 3 ng/mL.