

# Cynomolgus FLT3/Flk-2 Protein

Cat. No. FLT-CM230

## Description

<b>Source</b>	Recombinant Cynomolgus FLT3/Flk-2 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln28-Ser541.
<b>Accession</b>	A0A2K5VQ48
<b>Molecular Weight</b>	The protein has a predicted MW of 84.58 kDa. Due to glycosylation, the protein migrates to 160-180 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

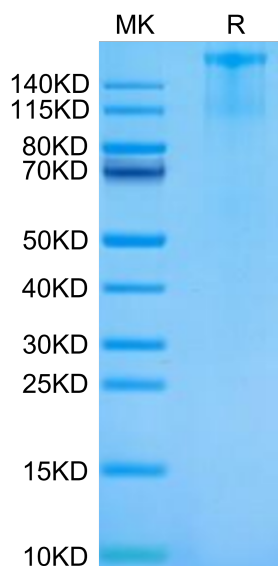
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein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

## Background

The Flt-3 (fms-like tyrosine kinase) receptor, also named Flk-2 (fetal liver kinase) and Stk-1 (stem cell tyrosine kinase) is a member of the class III subfamily of receptor tyrosine kinases that also includes KIT, the receptor for SCF and FMS, the receptor for M-CSF. Tyrosine-protein kinase that acts as cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation and survival of hematopoietic progenitor cells and of dendritic cells. Promotes phosphorylation of SHC1 and AKT1, and activation of the downstream effector MTOR. Promotes activation of RAS signaling and phosphorylation of downstream kinases, including MAPK1/ERK2 and/or MAPK3/ERK1.

## Assay Data

### Bis-Tris PAGE



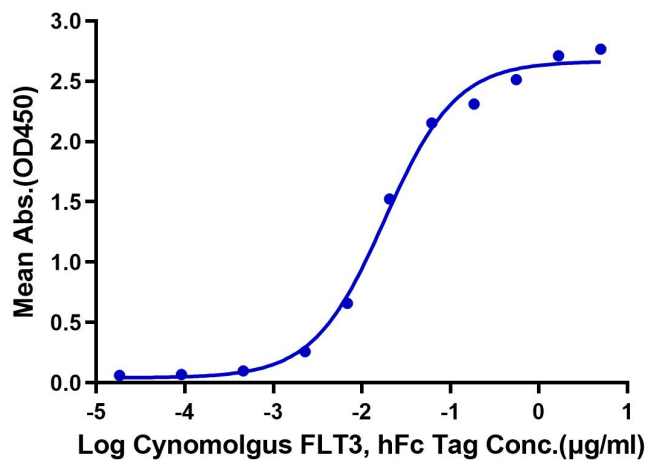
Cynomolgus FLT3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Cynomolgus FLT3, hFc Tag ELISA**

0.05µg Human FLT3 Ligand, His Tag Per Well



Immobilized Human FLT3 Ligand, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Cynomolgus FLT3, hFc Tag with the EC50 of 18.2ng/ml determined by ELISA.