

# Biotinylated Human FLT3/Flk-2 Protein

Cat. No. FLT-HM430B

## Description

<b>Source</b>	Recombinant Biotinylated Human FLT3/Flk-2 Protein is expressed from CHO with His tag and Avi tag at the C-Terminus. It contains Asn27-Asn541.
<b>Accession</b>	P36888-1
<b>Molecular Weight</b>	The protein has a predicted MW of 61.20 kDa. Due to glycosylation, the protein migrates to 80-110 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 > 95% as determined by HPLC

## Formulation and Storage

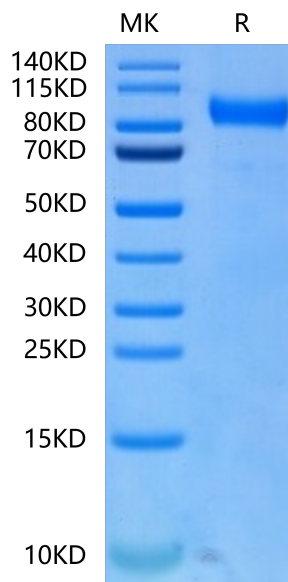
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein 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

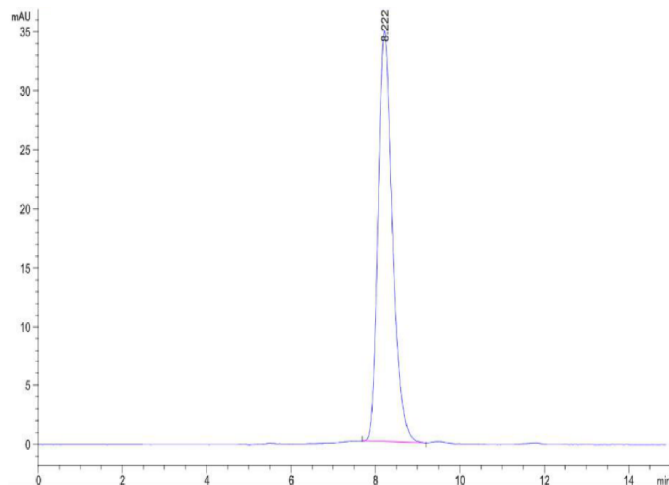
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data

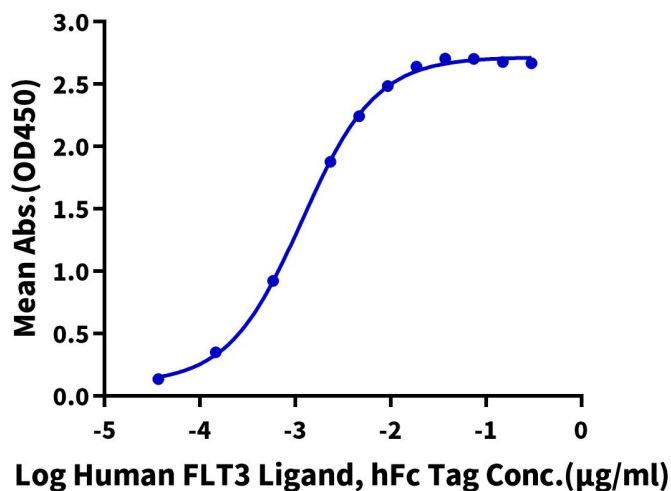


The purity of Biotinylated Human FLT3 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human FLT3, His Tag ELISA**

0.1µg Biotinylated Human FLT3, His Tag Per Well



Immobilized Biotinylated Human FLT3, His Tag at 1µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Human FLT3 Ligand, hFc Tag with the EC50 of 1.2ng/ml determined by ELISA (QC Test).