

Human FLT3/Flk-2 Protein

Cat. No. FLT-HM230

Description

Source	Recombinant Human FLT3/Flk-2 Protein is expressed from Expi293 with hFc tag at the C-terminal. It contains Asn27-Asn541.
Accession	P36888-1
Molecular Weight	The protein has a predicted MW of 84.9 kDa. Due to glycosylation, the protein migrates to 115-120 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

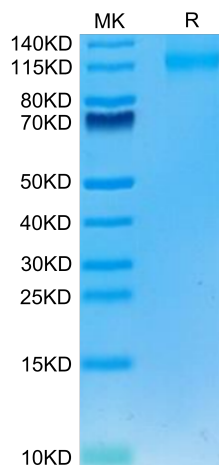
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid 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

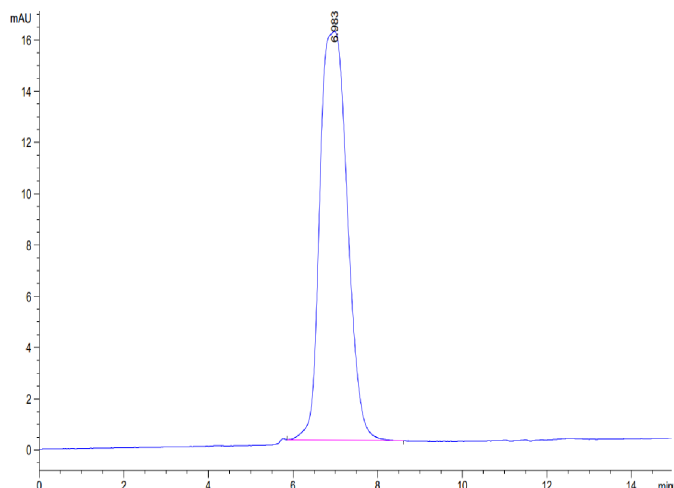
Tris-Bis PAGE



Human FLT3/Flk-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

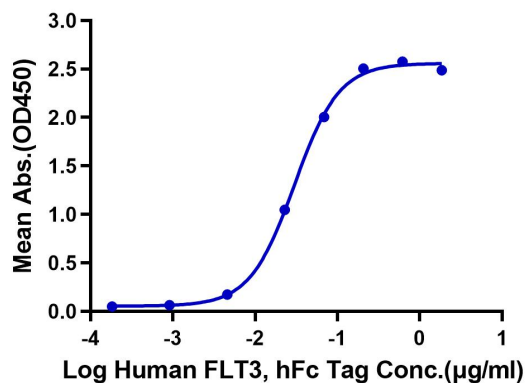


The purity of Human FLT3/Flk-2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human FLT3 , hFc Tag ELISA

0.1 μg Human FLT3 Ligand, His Tag Per Well



Immobilized Human FLT3 Ligand, His Tag at $1\mu\text{g}/\text{ml}$ ($100\mu\text{l}/\text{Well}$) on the plate. Dose response curve for Human FLT3, hFc Tag with the EC50 of $30\text{ng}/\text{ml}$ determined by ELISA.