

HUMAN FLT3 PROTEIN, HFC-HIS TAG

Cat.#: 11135

Product Name: Human FLT3 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: Flt-3;Flk-2;STK-1;CD135;FLK2;FLT-3

Target: FLT3

UNIPROT ID: P36888

Description: Recombinant human FLT3 protein with C-terminal human Fc and 6xHis tag

Background: Flt-3(Receptor-type tyrosine-protein kinase FLT3) is also known as FLK-2(Fetal liver kinase-2), STK-1(Stem cell tyrosine kinase 1), CD135. FLT3 is a cytokine receptor which belongs to the receptor tyrosine kinase class III. 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. Mutations that cause constitutive kinase activity promote cell proliferation and resistance to apoptosis via the activation of multiple signaling pathways.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 125-130 kDa after removal of the signal peptide.

Molecular Characterization: FLT3(Asn27-Ser543) hFc(Glu99-Ala330) 6×His tag

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

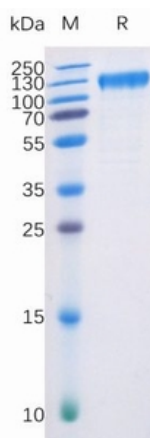


Figure 1. Human FLT3, hFc-His Tag on SDS-PAGE under reducing condition.

Human FLT3, hFc-His Tagged protein ELISA

0.2 µg of Human FLT3LG, mFc-His Tagged protein per well

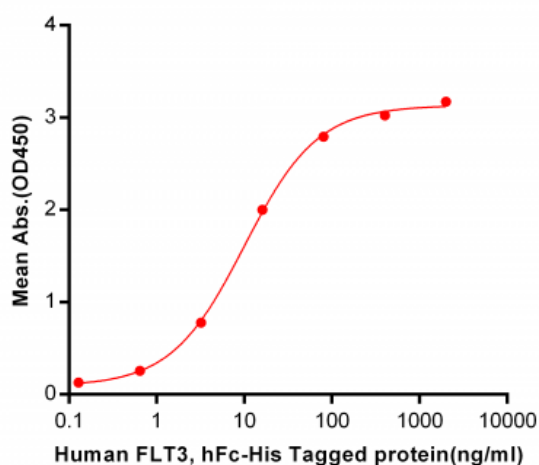


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human FLT3LG, mFc-His tagged protein [11161] can bind Human FLT3, hFc-His tagged protein (11135) in a linear range of 0.128-10.02 ng/ml.

