

FLT3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74151
Synonyms:	CD135; FL cytokine receptor; FLK2; Flk-2; Flt-3; STK-1
Species:	Mouse
Source:	HEK293
Accession:	NP_034359.2 (N28-S544)
Gene ID:	14255
Molecular Weight:	approximately 88-100 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human Flt-3 Ligand, at 1 µg/mL (100 µL/well) can bind Biotinylated Mouse FLT3 protein. The ED50 for this effect is 5.987 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	FLT3, a receptor tyrosine kinase, possesses diverse functional capabilities, including phosphatidylinositol 3-kinase binding, protein tyrosine kinase activity, and ubiquitin protein ligase binding. Its involvement in critical processes such as common myeloid progenitor cell proliferation, hemopoiesis, and lymphocyte proliferation highlights its essential role in hematopoietic development and immune system function. Situated on the external side of the plasma membrane, FLT3 exhibits biased expression in various tissues, including the brain, dorsal aorta, immune and reproductive systems, and spinal cord. This protein serves as a crucial player in diseases like acute myeloid leukemia and juvenile myelomonocytic leukemia, and its orthologs are implicated in conditions such as acute lymphoblastic leukemia, colorectal adenocarcinoma, hepatocellular carcinoma, and prostate cancer. The multifaceted functions and tissue-specific expression underscore the significance of FLT3 in cellular homeostasis and disease progression.
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Caution: Product has not been fully validated for medical applications. For research use only.

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