

## FITC-Labeled FLT3 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P701290
Synonyms:	Flt-3; Flk-2; STK-1; CD135; FLK2; FLT-3
Species:	Human
Source:	HEK293
Accession:	P36888 (N27-S543)
Gene ID:	2322
Molecular Weight:	110-130 kDa&250 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 $\mu$ m filtered solution of PBS, pH7.4 with trehalose as protectant.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 1 year, protect from light. 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 tyrosine-protein kinase, functions as a cell-surface receptor for the cytokine FLT3LG, exerting regulatory control over the differentiation, proliferation, and survival of hematopoietic progenitor cells and dendritic cells. This receptor facilitates the phosphorylation of various downstream effectors, including SHC1 and AKT1, and activates signaling cascades involving MTOR, RAS, MAPK1/ERK2, and/or MAPK3/ERK1. Moreover, it plays a pivotal role in the phosphorylation of FES, FER, PTPN6/SHP, PTPN11/SHP-2, PLCG1, and STAT5A and/or STAT5B. While wild-type FLT3 activation leads to modest STAT5A or STAT5B activation, mutations causing constitutive kinase activity result in heightened cell proliferation and resistance to apoptosis, underscoring its role in fostering aberrant signaling pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA