

FLT3 Protein, Human (T227M, HEK293, hFc)

Cat. No.:	HY-P75184
Synonyms:	CD135; FL cytokine receptor; FLK2; Flk-2; Flt-3; STK-1
Species:	Human
Source:	HEK293
Accession:	P36888 (N27-S543)
Gene ID:	2322
Molecular Weight:	100-145 kDa

PROPERTIES

AA Sequence

NQDLPVIKCV	LINHKNNDSS	VGKSSSYPMV	SESPEDLGCA
LRPQSSGTVY	EAAAVEVDVS	ASITLQVLVD	APGNISCLWV
FKHSSLNCQP	HFDLQNRGVV	SMVILKMTET	QAGEYLLFIQ
SEATNYTILF	TVSIRNTLLY	TLRRPYFRKM	ENQDALVCIS
ESVPEPIVEW	VLCDSQGESC	KEESPAVVKK	EEKVLHELFG
TDIRCCARNE	LGRECTRLFT	IDLNQTPQTT	LPQLFLKVGE
PLWIRCKAVH	VNHGFGLTWE	LENKALEEGN	YFEMSTYSTN
RTMIRILFAF	VSSVARNDTG	YYTCSSSKHP	SQSALVTIVE
KGFINATNSS	EDYEIDQYEE	FCFSVRFKAY	PQIRCTWTF S
RKSFPC EQKG	LDNGYSISKF	CNHKHQPGEY	IFHAENDDAQ
FTKMFTLNIR	RKPQVLA EAS	ASQASCFS DG	YPLPSWTWKK
CSDKSPNCTE	EITEGVWNRK	ANRKVFGQWV	SSSTLNMSEA
IKGFLVKCCA	YNSLGTSCET	ILLNSPG PFP	FIQDNIS

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 Human FLT3 protein. The ED₅₀ for this effect is 15.44 ng/mL.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

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 ddH₂O.

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 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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