

## FLT3 Protein, Human (HEK293, Fc)

<b>Cat. No.:</b>	HY-P70178
<b>Synonyms:</b>	rHuReceptor-Type Tyrosine-Protein Kinase FLT3/FLT3, Fc; Receptor-Type Tyrosine-Protein Kinase FLT3; FL Cytokine Receptor; Fetal Liver Kinase-2; FLK-2; Fms-Like Tyrosine Kinase 3; FLT-3; Stem Cell Tyrosine Kinase 1; STK-1; CD135; FLT3; FLK2; STK1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P36888/AAI26351.1 (N27-N541)
<b>Gene ID:</b>	2322
<b>Molecular Weight:</b>	Approximately 120.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> NQDLPVIKCV    L I N H K N N D S S    V G K S S S Y P M V    S E S P E D L G C A LRPQSSSGTVY    E A A A V E V D V S    A S I T L Q V L V D    A P G N I S C L W V FKHSSLNCQP    H F D L Q N R G V V    S M V I L K M T E T    Q A G E Y L L F I Q SEATNYTILF    T V S I R N T L L Y    T L R R P Y F R K M    E N Q D A L V C I S ESVPEPIVEW    V L C D S Q G E S C    K E E S P A V V K K    E E K V L H E L F G MDIRCCARNE    L G R E C T R L F T    I D L N Q T P Q T T    L P Q L F L K V G E PLWIRCKAVH    V N H G F G L T W E    L E N K A L E E G N    Y F E M S T Y S T N RTMIRILFAF    V S S V A R N D T G    Y Y T C S S S K H P    S Q S A L V T I V E KGFINATNSS    E D Y E I D Q Y E E    F C F S V R F K A Y    P Q I R C T W T F S RKSFPCEQKG    L D N G Y S I S K F    C N H K H Q P G E Y    I F H A E N D D A Q FTKMFTLNIR    R K P Q V L A E A S    A S Q A S C F S D G    Y P L P S W T W K K CSDKSPNCTE    E I T E G V W N R K    A N R K V F G Q W V    S S S T L N M S E A IKGFLVKCCA    Y N S L G T S C E T    I L L N S P G P F P    F I Q D N </pre>
<b>Biological Activity</b>	No Kinase Activity
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

## 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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