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**Product Data Sheet**


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Product Name: KIT Human  
 Cat. No.: GP22539  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mast/stem cell growth factor receptor Kit; SCFR; Piebald trait protein; PBT; Proto-oncogene c-Kit; Tyrosine-protein kinase Kit; p145 c-kit; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; CD117.		
Amino Acid Sequence	<p>QPSVSPGEPS PPSIHPGKSD LIVRVGDEIR LLCTDPGFVK WTFEILDET        ENKQNEWITE KAEATNTGKY TCTNKHGLSN SIYVFVRDPA KLFLVDRSLY        GKEDNDTLVR CPLTDPEVTN YSLKGCQGKP LPKDRLFIPD PKAGIMIKSV        KRAYHRLCLH CSVDQEGKSV LSEKFIKVR PAFKAVPVVS VSKASYLLRE        GEEFTVTCTI KDVSSSVYST WKRENSQTKL QEKYNSWHHG DFNYERQATL        TISSARVND S GVFMCYANNT FGSANVTTL EVVDKGFINI FPMINTTVFV        NDGENVDLIV EYEAFPKPEH QQWIYMNRTF TDKWEDYPKS ENESNIRYVS        ELHLTRLKGT EGGTYTFLVS NSDVNAAIAF NVYVNTKPEI LTYDRLVNGM        LQCVAAGFPE PTIDWYFCPG TEQRCSASVL PVDVQTLNSS GPPFGKLVVQ        SSIDSSAFKH NGTVECKAYN DVGKTSAYFN FAFKGNKEQ IHPHTLFTPL        EHHHHHH.</p>		
Formulation	KIT protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

KIT, also known as KIT Proto-Oncogene Receptor Tyrosine, is a cytokine receptor which is expressed not only in hematopoietic stem cells but likewise in other cell types. KIT binds to receptor tyrosine kinase type III, which is a stem cell factor, also named a "rigid factor" or "c-kit ligand". Once this receptor binds to stem cell factor (SCF), it forms a dimer which activates intrinsic tyrosine kinase activity, which sequentially phosphorylates & activates signaling molecules which breed signals in cells. This receptor protects vascular smooth muscle cells from apoptosis in addition to restoring

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

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cardiac function after myocardial infarction.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

KIT produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 507 amino acids (26-524 a.a.) and having a molecular mass of 57.1kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). KIT is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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