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# Recombinant human CD117/c-kit protein

Catalog Number: ATGP3665

#### PRODUCT INFORMATION

## **Expression system**

Baculovirus

#### **Domain**

26-524aa

#### UniProt No.

P10721

#### **NCBI Accession No.**

NP 000213.1

#### **Alternative Names**

Mast/stem cell growth factor receptor Kit isoform 1, KIT, C-Kit, CD117, PBT, SCFR

# PRODUCT SPECIFICATION

### **Molecular Weight**

57.1 kDa (507aa)

#### Concentration

0.25mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

KIT, also known as mast/stem cell growth factor receptor Kit isoform 1, is a cytokine receptor that is expressed not only in hematopoietic stem cells but also in other cell types. It binds to receptor tyrosine kinase type III, a stem cell factor, also called a rigid factor or c-kit ligand. When this receptor binds to stem cell factor (SCF), it forms a dimer that activates intrinsic tyrosine kinase activity, which, in turn, phosphorylates and activates



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signaling molecules that propagate signals in cells. This receptor protects vascular smooth muscle cells from apoptosis and helps restore cardiac function after myocardial infarction. Recombinant human KIT, fused to Histag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

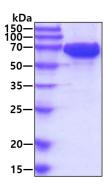
QPSVSPGEPS PPSIHPGKSD LIVRVGDEIR LLCTDPGFVK WTFEILDETN ENKQNEWITE KAEATNTGKY TCTNKHGLSN SIYVFVRDPA KLFLVDRSLY GKEDNDTLVR CPLTDPEVTN YSLKGCQGKP LPKDLRFIPD PKAGIMIKSV KRAYHRLCLH CSVDQEGKSV LSEKFILKVR PAFKAVPVVS VSKASYLLRE GEEFTVTCTI KDVSSSVYST WKRENSQTKL QEKYNSWHHG DFNYERQATL TISSARVNDS GVFMCYANNT FGSANVTTTL EVVDKGFINI FPMINTTVFV NDGENVDLIV EYEAFPKPEH QQWIYMNRTF TDKWEDYPKS ENESNIRYVS ELHLTRLKGT EGGTYTFLVS NSDVNAAIAF NVYVNTKPEI LTYDRLVNGM LQCVAAGFPE PTIDWYFCPG TEQRCSASVL PVDVQTLNSS GPPFGKLVVQ SSIDSSAFKH NGTVECKAYN DVGKTSAYFN FAFKGNNKEQ IHPHTLFTP<L EHHHHHH>

#### **General References**

Yarden Y., et al. (1987) EMBO J. 6:3341-3451. Anzai N., et al. (2002) Blood. 99:4413-4421.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

