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 His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

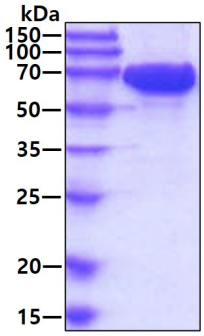
QPSVSPGEPS PPSIHPGKSD LIVRVGDEIR LLCTDPGFVK WTFEILDETN ENKQNEWITE KAEATNTGKY TCTNKHGLSN SIYVFVRDPA KLFLVDRSLY GKEDNDTLVR CPLTDPEVTN YSLKGCQGKP LPKDLRFIPD PKAGIMIKSV KRAYHRLCLH CSVDQEGKSV LSEKFILKVR PAFKAVPVVS VSKASYLLRE GEEFTVTCTI KDVSSSVYST WKRENSQTKL QEKYNSWHHG DFNYERQATL TISSARVNDS GVFMCYANNT FGSANVTTTL 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