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Recombinant Human CD117

Catalog#:P00722 Derived from Human Cells

DESCRIPTION	Recombinant Human Mast/stem Cell Growth Factor Receptor Kit is produced by our Mammalian expression system and the target gene encoding Gln26-Thr520 is expressed with a 6His tag at the C-terminus. **Accession#**: P10721 **Known as**: 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; KIT
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
SHIPPING	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Lyophilized protein should be stored at<-20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
RECONSTITUTION	*Always centrifuge tubes before opening. Do not mix by vortex or pipetting.* *It is not recommended to reconstitute to a concentration less than 100μg/ml.* Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
QUALITY CONTROL	**Mol Mass**:56.5kDa **AP Mol Mass**:150kDa, reducing conditions. **Purity**: Greater than 95% as determined by reducing SDS-PAGE. **Endotoxin**: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
BACKGROUND	C- Kit/SCF R is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). c-Kit contains 5 Ig-like C2-type (immunoglobulin-like) domains and 1 protein kinase domain. It belongs to the protein kinase superfamily and CSF-1/PDGF receptor subfamily. SCF R expression on mast cells enables them to infiltrate SCF-secreting tumors where they promote tumor growth and induce local immune suppression. SCF R is up-regulated on dendritic cells by Th2-orTh17-biasing stimuli, and it is required for subsequent dendritic cell induction of Th2 and Th17 responses. SCF R protects vascular smooth muscle cells from apoptosis and assists in the recovery of cardiac function following myocardial infarction.

SDS-PAGE