

## 32-7887: Recombinant Human Mast/stem Cell Growth Factor Receptor Kit/CD117/c-kit (C-6His)

**Gene :** KIT  
**Gene ID :** 3815  
**Uniprot ID :** P10721

### Description

Source: Human Cells.  
MW :56.5kD.

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 at the C-terminus. 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. Mature human SCF R consists of a 499 amino acid (aa) extracellular domain (ECD) with five tandem immunoglobulinlike domains, a 21 aa transmembrane segment, and a 431 aa cytoplasmic domain with the split tyrosine kinase domain. 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-or Th17-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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** 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.  
**Amino Acid :** QPSVSPGEPSPPSIHPGKSDLIVRVGDEIRLLCTDPGFVKWTFEILDETENKQNEWITEKAEATNTGKYTCTNK HGLSNSIYVVRDPAKFLVDRSLYGKEDNDTLVRCPLTDPEVTNYSKGCQKPLPKDLRFIPDPKAGIMIKSVK RAYHRLCLHCSVDQEGKSVLSEKFIKVRPAFKAVPVVSVSKASYLLREGEEFTVTCTIKDVSSSVYSTWKRENS QTKLQEKYNSWHHGDYFNYERQATLTISSARVNDSGVFMCYANNTFGSANVTTTLEVVDKGFINIFPMINTTVFV NDGENVDLIVEYEAFKPEHQWYIMNRTFTDKWEDYPKSENESENIRYVSELHLRLKGTGGTYTFLVNSDV NAAIAFNVYVNTKPEILTYDRLVNGMLQCVAAGFPEPTIDWYFCPGTEQRCSASVLPVDVQTLNSSGPPFGKLV VQSSIDSSAFKHNGTVECKAYNDVGKTSAYFNFAFKGNKEQIHPHTHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 Åµg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.