

## Product datasheet for **TP727120**

### Kitlg Rat Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Rat Stem Cell Factor/SCF (C-6His)
Species:	Rat
Expression cDNA Clone or AA Sequence:	Gln26-Ala189
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Rat Stem Cell Factor is produced by our E.coli expression system and the target gene encoding Gln26-Ala189 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	60427
UniProt ID:	<a href="#">P21581</a>
Summary:	Stem cell factor (SCF), is the ligand for the receptor-type protein-tyrosine kinase KIT. It plays an essential role in the regulation of cell survival and proliferation, hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. KITLG/SCF binding can activate several signaling pathways. It also promotes phosphorylation of PIK3R1, which is the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote activation of STAT family members STAT1, STAT3 and STAT5.



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