

Product datasheet for **TP727057**

Kitlg Rat Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Rat 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,pH7.4.
Note:	Recombinant Rat Kit ligand is produced by our Mammalian 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:	P21581
Summary:	SCF/C-kit ligand is the ligand of the tyrosine-kinase receptor encoded by the KIT locus. 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. Promotes phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. In phase I/II clinical studies administration of the combination of SCF and G-CSF resulted in a two- to threefold increase in cells that express the CD34 antigen compared with G-CSF alone.



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