

Recombinant Mouse SCF (His, Flag)

Information

Gene ID	17311
Accession #	P20826
Alternate Names	Hematopoietic growth factor KL; MGF; SCF; Kit ligand; Hematopoietic growth factor KL; c-Kit ligand
Source	HEK293
Protein sequence	KEICGNPVTDNVKDITKLVANLPNDYMITLNYVAGMDVLP SHCWLRDMVIQLSLSLTTLLDKFSNISEGLSNYSIIDKLGKIVDDLVLCEENAPKNIKESPKRPETRSFTPEEFFSIFNRSIDAFKDFMVASDTSDCVLSSTLGP EKDSRVSVTKPFMLPPVA
Tag	C-His & C-Flag
M.Wt	The protein has a calculated MW of 20.3 KDa.
Appearance	Solution protein
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 36 months from date of receipt, -20 to -70°C as supplied
Concentration	1 mg/mL
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active as determined by a cell proliferation assay using MC/9 mouse mast cells. The EC50 for this effect is 10 ng/mL.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

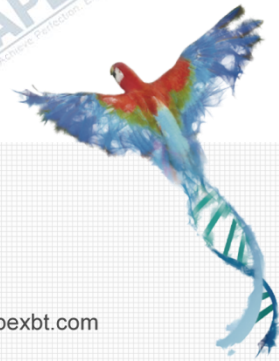
Purity	> 95 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/µg as determined by LAL method.

Description

Stem Cell Factor (SCF) which binds to the c-Kit receptor is produced by fibroblasts and endothelial cells. The soluble and transmembrane forms of the protein are formed by alternative splicing of the same RNA transcript and the presence of both soluble and transmembrane It is required for normal hematopoietic function and plays an important role in hematopoiesis, spermatogenesis, and melanogenesis. It also promotes mast cell adhesion, migration, proliferation, and survival.

Reference:

1. Ronnstrand L. 2004. Cell Mol Life Sci. 61:2535-48
2. Anderson DM, Williams DE, Tushinski R, et al. 1991. Cell Growth Differ. 2:373-8
3. Brannan CI, Lyman SD, Williams DE, et al. 1991. Proc Natl Acad Sci U S A. 88:4671-4
4. Okayama Y, Kawakami T. 2006. Immunol Res. 34:97-115.



APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com