

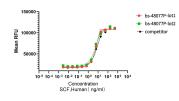
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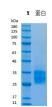
Recombinant human SCF protein (Active, CHO)

Catalog Number:	bs-48077P
Species:	Human
AA Seq:	26-190/273
Predicted MW:	18.5
Tags:	Tag free
Activity:	Yes
Endotoxin:	≤10 EU/mg
Purity:	\geq 95% as determined by SDS-PAGE.
Purification:	AC
Form:	Lyophilized
Storage:	Lyophilized from a 0.22 μ m-filtered solution containing PBS, 5% Mannitol and 0.01% Tween
	80, pH7.4
	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 36 months at -20°C to
	-80°C in lyophilized state. 6 months at -20°C to -80°C under sterile conditions after
	reconstitution. 7-10 days at 2°C to 8°C under sterile conditions after reconstitution.
Background:	Stem Cell Factor (SCF), also known as c-Kit ligand (KL), steel factor (SLF) and mast cell
	growth factor (MGF), is a 30 kDa glycoprotein with broad activities on various tissues,
	including hematopoietic cells, pigment cells, and primordial germ cells. SCF is secreted by
	endothelial cells, fibroblasts, and bone marrow stromal cells as a membrane-bound form
	which may be cleaved to release the soluble form. Both forms are active in promoting
	colony formation from murine bone marrow cells, but membrane-bound SCF is more
	effective in promoting hematopoieses in vivo, suggesting a role in cellular interactions
	between hematopoietic and stromal cells. The soluble form is thought to exist in solution as
	a noncovalently linked dimer. SCF is structurally related to M-CSF (CSF-1) and Flt-3/Flk-2
	Ligand (FL) with all three sharing a similar size, existence of transmembrane and soluble
	forms, four conserved cysteines, and alternative splicing exon locations, but they share little
	sequence homology. SCF alone is a modest colony stimulating factor. However, in the
	presence of other cytokines such as EPO, TPO, GM-CSF, G-CSF, M-CSF, IL-3, and IL-7, SCF is a
	potent costimulant that works synergistically to increase the size of myeloid, erythroid or
	lymphoid lineage colonies without influencing the lineage differentiation of the progenitors.

VALIDATION IMAGES

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.





Measured in a cell proliferation assay using TF-1 cells. The ED50 for this effect is 5-8 ng/mL.

The purity of the protein is greater than 95% as determined by reducing SDS-PAGE.