

Product Datasheet

Rat SCF protein (orb107801)

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 SCF is required for normal hematopoietic function. SCF plays an important role in hematopoiesis, spermatogenesis, and melanogenesis. In addition, it also promotes mast cell adhesion, migration, proliferation, and survival. Rat SCF shares 75% - 90% a.a. sequence identity with canine, feline, mouse, and human SCF. Furthermore, rat SCF is active on mouse and human cells, but human SCF is only weakly active on mouse cells.
Conjugation	Unconjugated
Tested Applications	HPLC, SDS-PAGE
Target	SCF
Preservatives	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4
Storage	Store at 4°C for up to two weeks. For long term storage, aliquot and store at -20°C, avoid freeze/thaw cycles.
Note	For research use only
Protein Sequence	MQEICRNPVT DNVKDITKLV ANLPNDYMIT LNYVAGMDVL PSHCWLRDMVTHLSVSLTTL LDKFSNISEG LSNYSIIDKL GKIVDDLVAE MEENAPKNVK ESLKKPETRNFTPEEFFSIF NRSIDAFKDF MVASDTSDCV LSSTLGPEKD SRVSVTKPFM LPPVA
Purity	> 95% by SDS-PAGE and HPLC analyses
MW	18.5 kDa
Expiration Date	6 months from date of receipt.

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