ACTIVE BIOSCIENCE
PROTEINS · CELLS · ANTIBODIES

Rat SCF

Synonyms: Kit ligand Precursor, C-kit ligand, SCF, Mast cell growth factor, MGF, SF, KL-1, Kitl, DKFZp686F2250, Hematopoietic growth factor KL.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
2 µg	1885.970.002		
10 µg	1885.970.010		
50 µg	1885.970.050		
100 µg	1885.970.100		
1 mg	1885.970.199		

Please enquire for bulk quantities and other vial sizes

Description

Stem cell factor Rat Recombinant produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 164 amino acids (26-189) and having a molecular mass of 18.4 kDa.

- **Biological Activity** $\geq 1 \times 10^5$ units/mg
- **Source**   *E. Coli*
- **Purity**   ≥ 98 % (SDS-PAGE, SEC-HPLC)
- **Endotoxin level**   ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer**   Lyophilized from a concentrated (1mg/ml) solution in water containing 0.02% $NaHCO_3$*
- **Physical state**   Sterile filtered, lyophilized

Biological Activity

The ED_{50} is determined by the dose-dependant stimulation of the proliferation of human TF-1 cells which is < 10 ng/ml, corresponding to a specific activity of 100,000units/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

Stability

Lyophilized rat SCF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SCF should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid repeated freeze-thaw cycles**.

Amino Acid Sequence

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MQEICRNPVT DNVKDITKLV ANLPNDYMIT LNYVAGMDVL PSHCWLRDMV THLSVSLTTL LDKFSNISEG
LSNYSIIDKL GKIVDDLVAC MEENAPKNVK ESLKKPETRN FTPEEFFSIF NRSIDAFKDF MVASDTSDCV
LSSTLGPEKD SRVSVTKPFM LPPVA
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Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

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*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.