

Product: Stem Cell Factor, murine
Catalog #: 11-SCF-M
Amount: 5 µg

DESCRIPTION: Recombinant Human SCF (rmSCF)
rmSCF is a single, non-glycosylated polypeptide chain containing 164 amino acids and having a molecular mass of 18309 Dalton
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Lys-Glu-Ile-Cys

SOURCE: *Escherichia coli* expression system

MOLECULAR WEIGHT: 18.3 kDa

PURITY: > 98%, as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rmSCF

DIMERS & AGGREGATES: Less than 1% as determined by silver stained SDS-PAGE gel analysis

PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- UV spectroscopy at 280 nm using the absorbency value of 0.52 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENcomputer analysis program of protein sequences
- Analysis by RP-HPLC, using a standard solution of mSCF as a Reference Standard

FORM: Purified, in 10mM Sodium phosphate buffer pH=6.5, containing 0.1% BSA

CONCENTRATION: 0.1 mg/ml

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

BIOLOGICAL ACTIVITY: rmSCF is fully biologically active when compared to standard.
The ED50 as determined by the dose-dependant stimulation of Human TF-1 cell line is < 10 ng/ml, corresponding to a Specific Activity of 1x10⁵ IU/mg

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