

Catalog number GF-SCF-HU

Recombinant Human SCF (Stem Cell Factor, 165 aa)

Carrier-free *E. coli*-expressed recombinant human soluble SCF (KIT ligand), $\geq 97\%$ pure and supplied frozen. It supports hematopoietic and mast-cell progenitor expansion; the 18.5 kDa chain self-associates into the noncovalent homodimer that engages KIT.

Specification

Species	Human
Expressed in	<i>E. coli</i> BL21(DE3)
UniProt	P21583
Accession	NP_000890.1
Residue range	Glu26-Ala190 (165 aa soluble mature)
Molecular weight	18.5 kDa (SDS-PAGE, monomer)
Purity	$\geq 97\%$ (SDS-PAGE & RP-HPLC)
Endotoxin	≤ 0.1 EU/ μ g (LAL)
Bioactivity	ED50 1-5 ng/mL, human TF-1 erythroleukemia cell proliferation
Carrier	carrier-free
Formulation	Sterile-filtered solution in PBS, pH 7.4. Supplied frozen; carrier-free (a 0.1% BSA carrier option is also available). The active species is a noncovalent homodimer of two 18.5 kDa chains that forms on dilution into aqueous buffer, so no refolding or dimerization step is needed.
Reconstitution	Supplied ready to use, no reconstitution required. Thaw on ice, mix gently, and dilute into your assay buffer or medium.
Storage	-80 °C. Aliquot on receipt to avoid repeated freeze/thaw.
Stability	12 mo at -80 °C; 1 wk at 2-8 °C once thawed. Do not refreeze.
Grade	Research use only

Ordering

Catalog no.	Pack	List price	Availability
GF-SCF-HU-10UG	10 μ g	\$38	Waitlist
GF-SCF-HU-50UG	50 μ g	\$80	Waitlist

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GF - SCF - HU - 100UG	100 µg	\$110	Waitlist
GF - SCF - HU - 1MG	1 mg	\$320	Waitlist

Storage and shipping

Cold chain	Frozen, on dry ice. Declared UN1845, dangerous goods class 9.
Hazard classification	None
Certificate of Analysis	Issued per lot and shipped with the product. Any lot can be retrieved at bramantebio.com/support/coa/

Research use only

For research use only. Not for use in diagnostic or therapeutic procedures, and not for human or veterinary use. The purchaser is responsible for determining suitability for their application and for compliance with applicable biosafety and institutional requirements.