

SCGF- β , human recombinant

CATALOG #:	7198-10	10 μ g
	7198-50	50 μ g
ALTERNATE NAMES:	Stem Cell Growth Factor-beta	
SOURCE:	E coli	
PURITY:	\geq 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	25.0 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/ μ g of protein (<1EU/ μ g).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 0.25x PBS and 1mM DTT.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

SCGF alpha and beta are hematopoietic growth factor that exerts their activity at early stages of hematopoiesis. The SCGFs are non-glycosylated species-specific cytokines that can support growth of primitive hematopoietic cells, and in combination with EPO or GM-CSF, promote proliferation of erthroid or myeloid progenitors, respectively. Recombinant human SCGF- β is a 25.0 kDa polypeptide containing 227 amino acid residues.

AMINO ACID SEQUENCE:

MGHGARGAER EWEGGWGGAQ EEREREALM LKHLQEALGL PAGRGDENPA
GTVEGKEDWE MEEDQGESEE EATPTPSSG PSPSPTPEDI VTYILGRLAG
LDAGLHQLHV RLHALDTRVV ELTQGLRQLR NAAGDTRDAV QALQEAQGRA
EREHGRLEGC LKGLRLGHKC FLLSRDFEAQ PSASPHPLSP DQPNGGTLEN
CVAQASDDGS WWDHDCQRRL YVCEFPF

BIOLOGICAL ACTIVITY:

Determined by the dose dependent stimulation of the proliferation of human TF-1 cells, previously grown in media containing GM-CSF. The expected ED₅₀ for this effect is \leq 7.0 ng/ml.

RELATED PRODUCTS:

- SCGF- α , human recombinant (Cat # 7197-10, -50)
- Human Cell^{exp} Human Recombinant SCF (Cat # 6478-10, -50)
- SCF, human recombinant (Cat # 4327-10, -50, -1000)
- SCF, murine recombinant (Cat # 4328-10, -50, -1000)
- SCF, rat recombinant (Cat # 4329-10, -50, -1000)
- SCF Antibody (Cat # 5327-100)
- SCF Antibody (Cat # 5328-100)
- SCF Antibody (Cat # 5329R-100)

FOR RESEARCH USE ONLY! Not to be used in humans.