

SCGF- α , human recombinant

CATALOG #:	7197-10	10 μ g
	7197-50	50 μ g
ALTERNATE NAMES:	Stem Cell Growth Factor-alpha	
SOURCE:	E coli	
PURITY:	\geq 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	33.9 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 with no additives	
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 or erthroid or myeloid progenitors, respectively. Recombinant human SCGF- α is a 33.9 kDa polypeptide containing 305 amino acid residues.

AMINO ACID SEQUENCE:

GHGARGAERE WEGGWGGAQE EEREREALML KHLQEALGLP AGRGDENPAG
TVEGKEDWEM EEDQGEEEEEE EATPTPSSGP SPSPTPEDIV TYILGRLAGL
DAGLHQLHVR LHALDTRVVE LTQGLRQLRN AAGDTRDAVQ ALQEAQGRAE
REHGRLEGCL KGLRLGHKCF LLSRDFEAQA AAQARCTARG GSLAQPADRQ
QMEALTRYLR AALAPYNWPV WLGVDHRRAE GLYLFENGQR VSFFAWHRSP
RPELGAQPSA SPHPLSPDQP NGGTLENCVA QASDDGSWWD HDCQRRLYYV CEFPF

BIOLOGICAL ACTIVITY:

Determined by its inhibitory effect on the proliferation of TF-1 cells previously grown in media containing GM-CSF. The ED₅₀ for this effect was observed at 2.5 ng/ml.

RELATED PRODUCTS:

- SCGF- β , human recombinant (Cat # 7198-10, -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.