SCGF-alpha Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Stem Cell Growth Factor-?

Cat. No.:

RBG10292002	(2 µg)
RBG10292010	(10 µg)
RBG10292100	(100 µg)

Description

SCGF-alpha and -beta are hematopoietic growth factors that exert 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 erythroid or myeloid progenitors, respectively. Recombinant Human SCGF-alpha is a 33.9 kDa polypeptide containing 305 amino acid residues.

Research topic

Bone and cartilage metabolism

Amino Acid Sequence

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

E. coli

Purity

98%

Biological Activity

Determined by its inhibitory effect on the proliferation of TF-1 cells previously grown in media containing GM-CSF. The ED 50 for this effect was observed at ? 2.5 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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.

Storage, Stability/Shelf Life

-20°C

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