SCGF-beta Human E. coli

Product Data Sheet

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

Cat. No.:

RBG10293002	(2 µg)
RBG10293010	(10 µg)
RBG10293100	(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-beta is a 25.0 kDa polypeptide containing 227 amino acid residues.

Research topic

Bone and cartilage metabolism

Amino Acid Sequence

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MGHGARGAER EWEGGWGGAQ EEEREREALM LKHLQEALGL PAGRGDENPA GTVEGKEDWE MEEDQGEEEE EEATPTPSSG
PSPSPTPEDI VTYILGRLAG LDAGLHQLHV RLHALDTRVV ELTQGLRQLR NAAGDTRDAV QALQEAQGRA EREHGRLEGC
LKGLRLGHKC FLLSRDFEAQ PSASPHPLSP DQPNGGTLEN CVAQASDDGS WWDHDCQRRL YYVCEFPF
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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 ? 7 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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