# **BioVision**

## SCGF-β, human recombinant

| CATALOG #:          | 7198-10<br>7198-50   | 10 µg<br>50 µg                                      |
|---------------------|--|---|
| ALTERNATE NAMES:    | Stem Cell Growth Factor-beta   |   |
| SOURCE:             | E coli   |   |
| PURITY:             | ≥ 98% by SDS-PAGE gel and HPLC analyses  |   |
| MOL. WEIGHT:        | 25.0 kDa   |   |
| ENDOTOXIN LEVEL:    | < 0.1 ng/µg of protein (<1EU/µg).  |   |
| FORM:               | Lyophilized  |   |
| FORMULATION:        |  | rrough a 0.2 micron filter.<br>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 or erthroid or myeloid progenitors, respectively. Recombinant human SCGF- $\beta$  is a 25.0 kDa polypeptide containing 227 amino acid residues.

#### AMINO ACID SEQUENCE:

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

### **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  $ED_{50}$  for this effect is  $\leq$ 7.0 ng/ml.

#### RELATED PRODUCTS:

- SCGF-α, human recombinant (Cat # 7197-10, -50)
- Human Cell<sup>exp</sup> 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.

