



# Recombinant Human SCGF-beta

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

|                  |                            |
|------------------|----------------------------|
| <b>Cat.-no.:</b> | <b>100-096S</b>            |
| <b>Size:</b>     | 2 µg                       |
| <b>Lot. No.:</b> | According to product label |

## Scientific Background

|                        |                                    |
|------------------------|------------------------------------|
| <b>Gene-ID (NCBI):</b> | 6320                               |
| <b>Synonyms:</b>       | CLEC11A; P47; SCGF; LSLCL; CLECSF3 |

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.

## Sequence

```
MGHGARGAER EWEGGWGGAQ EEEREREALM LKHLQEALGL  
PAGRGDENPA GTVEGKEDWE MEEDQGESEE EEATPTPSSG  
PSPSPTPEDI VTYILGRLAG LDAGLHQLHV RLHALDTRVV  
ELTQGLRQLR NAAGDTRDAV QALQEAQGRA EREHGRLEGC  
LKGLRLGHKC FLLSRDFEAQ PSASPHPLSP DQPNGGTLEN  
CVAQASDDGS WWDHDCQRRLL YYVCEFFP
```

## Database References

|                        |             |
|------------------------|-------------|
| <b>Protein RefSeq:</b> | NP_002966.1 |
| <b>Uniprot ID:</b>     | Q9Y240      |
| <b>mRNA RefSeq:</b>    | NM_002975.2 |

## Product Specifications

|                        |                                    |
|------------------------|------------------------------------|
| <b>Expressed in</b>    | E. coli                            |
| <b>Purity</b>          | > 98% by SDS-PAGE & HPLC analyses  |
| <b>Endotoxin level</b> | < 0.1 ng /µg of protein (<1EU/µg). |
| <b>Formulation</b>     | lyophilized                        |
| <b>Length (aa):</b>    | 227                                |
| <b>MW:</b>             | 25.0 kDa                           |

**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 7 ng/ml.



**AVOID REPEATED FREEZE AND THAW CYCLES!**