

# Human Hematopoietic Stem Cell Expansion Cytokine Bundle(With IL-6)

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## 1. Product Description

Human Hematopoietic Stem Cell Expansion Cytokine Bundle contains the key components required for ex vivo Human Hematopoietic Stem Cells

Key Features:

- ♦ The manufacture process of cytokines is carried out according to GLP guidelines.
- ♦ Exceptionally low endotoxin level, even less than 0.2 EU/ $\mu$ g, much less than the most other suppliers' standard (1 EU/ $\mu$ g).
- ♦ High purity determined by SDS-PAGE and HPLC analysis
- ♦ High biological activity and functionality
- ♦ Excellent lot-to-lot consistency
- ♦ Economical package to prevent loss of materials and reduce experiment cost due to possible contamination
- ♦ Competitive prices compared with other suppliers

## 2. Bundle Contents

Cytokine bundle includes:

Human SCF (Catalog No. Z02692)	100 $\mu$ g (10 $\mu$ g *10 vials)
Human TPO (Catalog No. Z02720)	100 $\mu$ g (10 $\mu$ g *10 vials)
Human Flt3-Ligand (Catalog No. Z02926)	100 $\mu$ g (10 $\mu$ g *10 vials)
Human IL-6 (Catalog No. Z00372)	10 $\mu$ g

## 3. Characteristics

Table 1. Characteristics of Each Cytokine in the Bundle

	Specific Activity	Endotoxin Level	Purity
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Human SCF (Catalog No. Z02692)	The ED50 as determined by the dose-dependant stimulation of human TF-1 cells is < 2 ng/ml, corresponding to a specific activity of >5×10 <sup>5</sup> units /mg.	<1 EU/μg	>95% by SDS-PAGE and HPLC analysis
Human TPO (Catalog No. Z02720)	The ED50 as determined by the dose-dependant stimulation of Mo7e cells is typically 1-3 ng/ml, corresponding to a specific activity of > 3.3×10 <sup>5</sup> units/mg.	<0.2 EU/μg	>98% by SDS-PAGE and HPLC analysis
Human Flt3-Ligand (Catalog No. Z02926)	The ED50 as determined by the dose-dependant stimulation of the proliferation of human AML5 cells is < 1.0 ng/ml, corresponding to a specific activity of > 1.0×10 <sup>6</sup> units/mg.	<0.2 EU/μg	>97% by SDS-PAGE and HPLC analysis
Human IL-6 (Catalog No. Z00372)	The ED50 as determined by the dose-dependant stimulation of murine 7TD1 cells is < 0.1 ng/ml, corresponding to a Specific Activity of 5×10 <sup>7</sup> units/mg.	<1 EU/μg	>98% by SDS-PAGE , HPLC and FPLC analysis

#### 4. Storage

This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.

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#### GenScript USA Inc.

860 Centennial Ave.,  
 Piscataway, NJ 08854

Tel: 732-885-9188, 732-885-9688

Fax: 732-210-0262, 732-885-5878

Email: [product@genscript.com](mailto:product@genscript.com)

Web: [www.genscript.com](http://www.genscript.com)