

Human Hematopoietic Stem Cell Expansion Cytokine Bundle(With IL-3)

Cat. No. L00443-1**Version 05182012**

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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/μg, much less than the most other suppliers' standard (1 EU/ug).
- ♦ 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 μg (10μg *10 vials)
Human TPO (Catalog No. Z02720)	100 μg (10μg *10 vials)
Human Flt3-Ligand (Catalog No. Z02926)	100 μg (10μg *10 vials)
Human IL-3 (Catalog No. Z02991)	10 μg

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 ⁵ 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 ⁵ 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 ⁶ units/mg.	<0.2 EU/μg	>97% by SDS-PAGE and HPLC analysis
Human IL-3 (Catalog No. Z02991)	The ED50 as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells is < 0.1 ng/ml, corresponding to a specific activity of > 1 x 10 ⁷ units/mg.	<0.2 EU/μg	>95% by SDS-PAGE and HPLC 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.

For Research Use Only.

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