

Product Datasheet

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Recombinant Human IL-7

Recombinant Protein

Product Information

Product No.: I-189

Storage: -20°C to -70°C

Product Description

Background:

Interleukin 7 (IL-7), also known as Lymphopoietin 1, is a hematopoietic growth factor which affects primarily early B and T cells (1). It stimulates the differentiation of multipotent hematopoietic stem cells into lymphoid progenitor cells. IL-7 is important for proliferation during certain stages of B cell maturation, T and NK cell survival, development and homeostasis. Produced by thymic stromal cells, spleen cells and keratinocytes, IL-7 can also co-stimulate the proliferation of mature T cells in combination with other factors such as ConA and IL-2 (2). In myeloid lineage cells, IL-7 up-regulates the production of pro-inflammatory cytokines and stimulates the tumoricidal activity of monocytes and macrophages. IL-7 has significant clinical and biomedical potential, such as cancer therapy and HIV infections (3). Human and murine IL-7 is cross-species reactive.

Known Reactivity Species:

Human

Expression Host:

E. coli Cells

Formulation

This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.4 with no calcium, magnesium, or preservatives present.

Purity

>97% by SDS-PAGE and analyzed by silver stain.

Endotoxin

<0.01EU/µg as determined by the LAL method

Storage and Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C **in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.**

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Country of Origin

USA



References

1. Namen, AE. *et al.* (1990) *Int. J. Cell Cloning* **1**:168
2. Reed, SG. *et al.* (1989) *J. Exp. Med.* **169**:707
3. Prakash, S. *et al.* (2008) *Appl. of Biochem. Biotechnol.* **151**:93

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