Interleukin-7 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: IL-7, Lymphopoietin-1, pre-B-cell growth factor

Cat. No.:

RBG10007002	(2 µg)
RBG10007010	(10 µg)
RBG10007100	(100 µg)

Introduction to the Molecule

Interleukin-7 (IL-7) is a pleiotropic cytokine with a variety of activities. IL-7 supports differentiation of cytotoxic T-lymphocytes and promotes the generation of lymphokine-activated killer-cells. IL-7 is further responsible for the upregulation of the production of pro-inflammatory cytokines and the stimulation of the tumoricidal activity of monocytes/macrophages.

Research topic

Cytokines and chemokines and related molecules, Oncology

Amino Acid Sequence

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MDCDIEGKDG KQYESVLMVS IDQLLDSMKE IGSNCLNNEF NFFKRHICDA NKEGMFLFRA ARKLRQFLKM NSTGDFDLHL
LKVSEGTTIL LNCTGQVKGR KPAALGEAQP TKSLEENKSL KEQKKLNDLC FLKRLLQEIK TCWNKILMGT KEH
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Source

E. coli

Purity

98%

Biological Activity

The ED50 was determined by the dose-dependent stimulation of the proliferation of murine 2E8 cells is 0.5 ng/ml, corresponding to a specific activity of 2×106 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

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.

Storage, Stability/Shelf Life

-20°C

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