

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-7, Human

Catalog Number: BK2025

Source: E.coli

Quantity: 10µg

Description:

Interleukin-7 (IL-7), also known as lymphopoietin 1 and pre-B cell factor, is a hematopoietic growth factor belonging to the IL-7/IL-9 family. It is produced by keratinocytes, dendritic cells, hepatocytes, neurons and epithelial cells. IL-7 binds and signals through IL-7 receptor, a heterodimer consisting of IL-7 receptor alpha and common gamma chain receptor. IL-7 plays a role in regulating early B cell and T cell development. It is also important for optimal dendritic cell-T cell interaction.

Molecular Weight:

17.4 kDa

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

Fully biologically active when compared to standard. rHuIL-7 stimulates proliferation of PHA-activated human peripheral blood mononuclear cell (PBMC). The specific activity of Recombinant Human IL-7 is $\geq 1.0 \times 10^8$ IU/mg, which is calibrated against human IL-7 WHO Standard.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.

AA Sequence:

DCDIE-
GKDGKQYESVLMVSIQQLLDSMKEIGSNCLNNE
FNFFKRHICDANKEGMFLFRAARKLRQFLK-
MNSTGDFDLHLLKVSEGTTILLNCTGQVKGRK-
PAALGEAQPTKSLEENKSLKEQKKLNDLCFLKRL
LQEIKTCWNKILMGTKEH

Endotoxin:

< 1 EU/µg of protein by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human Interleukin-7 (IL-7), His remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human Interleukin-7 (IL-7), His should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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