

IL-7, His, Rat

Cat. No.: Z03197-1

Size: 1.0 mg

Synonyms: Lymphopoietin 1(LP-1), pre-B cell factor

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.

Amino Acid Sequence:

```
00001 DCHIKDKDGK AFGSVLMISI NQLDKMTGTD SDCPNNEPNF
00041 FKKHLCDDTK EAAFLNRAAR KLRQFLKMNI SEEFNDHLLR
00081 VSDGTQTLVN CTSKEEKTIK EQKKNDPCFL KRLLEIKTC
00121 WNKILKGSIH HHHHH
```

Source: CHO

Species: Rat

Biological Activity: ED₅₀ < 22 ng/ml, measured in a cell proliferation assay using 2E8 cells.

Molecular Weight: 20-28 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant rat Interleukin-7 (IL-7), His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rat Interleukin-7 (IL-7), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.