

Recombinant Mouse Interleukin 7

Catalog Number: SJF07

Strength: 10 μ g

Specifications and Use

Description	<ul style="list-style-type: none">● Recombinant mouse IL-7, produced in E. coli, containing three pairs of disulfide bonds. The N-terminal of rmlIL-7 has a 6xHis-Tag, which does not affect the activity.
Source	<ul style="list-style-type: none">● E. coli
Molecular Mass	<ul style="list-style-type: none">● Approximately 17.2kD.
Purity	<ul style="list-style-type: none">● $\geq 97\%$.
Endotoxin Level	<ul style="list-style-type: none">● <1EU/μg, determined by the LAL method.
Biological Activity	<ul style="list-style-type: none">● Measured in a cell proliferation assay using 2E8 cells. ED50 shall be less than 10ng/ml.
Formulation	<ul style="list-style-type: none">● Sterile lyophilized powder, in PBS, pH7.4.
Reconstitution	<ul style="list-style-type: none">● It is recommended to reconstitute the lyophilized rmlIL-7 in 0.2ml sterile water.
Storage	<ul style="list-style-type: none">● Lyophilized samples are stable for greater than six months from date of receipt at -20$^{\circ}$C to -70$^{\circ}$C.● Avoid repeated freeze-thaw cycles.

Mouse Interleukin 7

Mouse IL-7 cDNA encodes 154 amino acids, including a 25 aa signal peptide. Mouse IL-7 shares approximately 88% homology to the amino acid sequence of rat IL-7 and 58-60% aa sequence identity with human, sheep, pig, cat, and dog IL-7. Human and mouse IL-7 exhibit cross-species activity. IL-7 is produced by a variety of cells in lymphoid tissues, including stromal epithelial cells in the thymus, bone marrow, and intestinal tract. IL-7 has limited circulation in healthy animals, but increases when lymphocytes decrease.

FOR LABORATORY USE ONLY.