

Rev03  
 Update: Dec,14,2021

## DATASHEET

# IL-7, His, Mouse

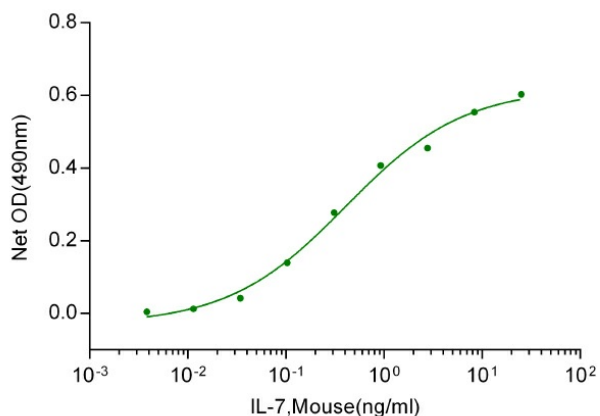
Cat. No.: Z03209

## Product Introduction

<b>Species</b>	Mouse
<b>Protein Construction</b>	<div> <div>IL-7 (Glu26-Ile154) Accession # Q544C8</div> <div>Poly-His</div> </div> <div> <div>N-term</div> <div>C-term</div> </div>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 0.4 ng/ml, measured in a cell proliferation assay using 2E8 cells.
<b>Expression System</b>	CHO
<b>Apparent Molecular Weight</b>	8~28kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples

ED<sub>50</sub><0.4ng/ml, measured in a cell proliferation assay using 2E8 cells.



## Background

**Target Background :** 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.

**Synonyms :** IL7; IL-7; interleukin 7; Lymphopoietin 1; LP-1; pre-B cell factor

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**