

Datasheet for ABIN2018155
IL-7 Protein (AA 26-154) (His tag)[Go to Product page](#)

2 Images

Overview

Quantity:	50 µg
Target:	IL-7 (IL7)
Protein Characteristics:	AA 26-154
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-7 protein is labelled with His tag.

Product Details

Characteristics:	ED50<0.4 ng/mL, measured in a cell proliferation assay using 2E8 cells. AA 26-154, expressed with C-terminal 6xHis.
Purity:	> 95 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL-7 (IL7)
Alternative Name:	Interleukin-7 (IL-7) (IL7 Products)
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

Target Details

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

Molecular Weight: 8-28 kDa, observed by reducing SDS-PAGE.

UniProt: [Q544C8](#)

Pathways: [JAK-STAT Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

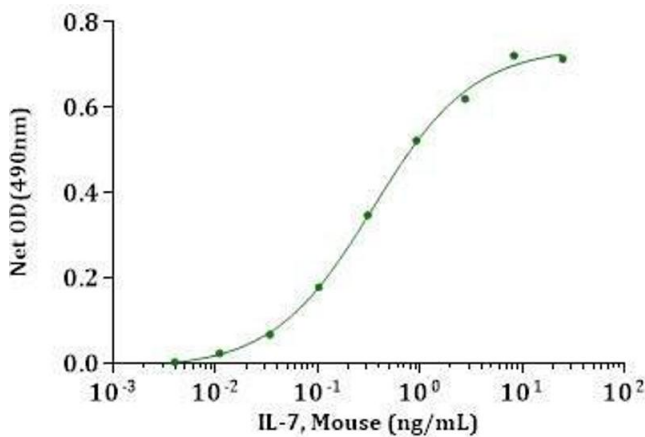
Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

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

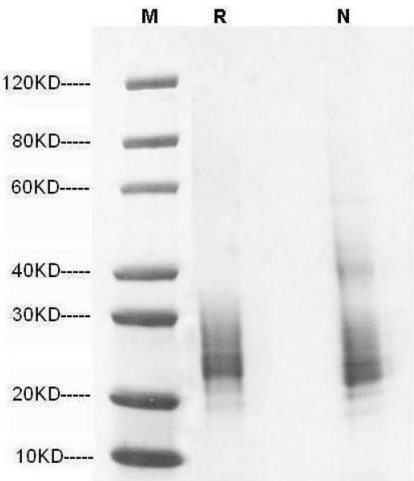
Expiry Date: 6 months

Images



Activity Assay

Image 1. IL-7,His, Mouse stimulates cell proliferation assay using 2E8 cells. The ED₅₀ for this effect is less than 0.4 ng/ml (0.318 ng/mL).



SDS-PAGE

Image 2. 5 µg of IL-7,His, Mouse was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.