

## Active Recombinant Equine Interleukin 2

Cat. No. IL2-255E Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Equine IL-2 was expressed in Yeast. MW= 14.9 kDa (129 aa).
<b>Species</b>	Equine
<b>Source</b>	Yeast
<b>Description</b>	Interleukin-2 (IL-2) is an interleukin, a type of cytokine immune system signaling molecule, which is a leukocytotrophic hormone that is instrumental in the body's natural response to microbial infection and in discriminating between foreign (non-self) and self. IL-2 mediates its effects by binding to IL-2 receptors, which are expressed by lymphocytes, the cells that are responsible for immunity.
<b>Formulation/ Reconstitution</b>	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
<b>Purification</b>	Ion-exchange chromatography.
<b>Purity</b>	>95% as visualized by SDS-PAGE analysis.
<b>Amino Acid Sequence</b>	APTSSSKRET QQQLKQLQMD LKLLLEGVNN NKNPKLSKML TFKINMPKKA TELKHLQCLE EELKPLEEML KNFLSKDIKE LMSNINVTVL GLKGSETRFT CEYDDETGTI VEFLNKWITF CQSIFSTMT.
<b>Bioactivity</b>	The biological activity of equine IL-2 was measured in a cell proliferation assay using carboxyfluorescein diacetate succinimidyl ester-loaded equine PBMC. The ED50 for

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this effect is typically 0.5 – 1.0 ng/mL.

**Stability And Storage**

Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

**Pathways**

Allograft rejection; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Graft-versus-host disease; Intestinal immune network for IgA production; Jak-STAT signaling pathway; T cell receptor signaling pathway; Type I diabetes mellitus

## GENE INFORMATION

**Gene Name**

[IL2 interleukin 2 \[ Equus caballus \]](#)

**Synonyms**

interleukin 2; IL-2; IL2; interleukin-2; TCGF; T-cell growth factor

**Gene ID**

[100034204](#)

**mRNA Refseq**

[NM\\_001085433.1](#)

**Protein Refseq**

[NP\\_001078902.1](#)

**UniProt ID**

[P37997](#)

**Chromosome  
Location**

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