

Active Recombinant Equine Interleukin 2

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

SPECIFICATION

Product Overview	Recombinant Equine IL-2 was expressed in Yeast. MW= 14.9 kDa (129 aa).
Species	Equine
Source	Yeast
Description	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.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	APTSSSKRET QQQLKQLQMD LKLLLEGVNN NKNPKLSKML TFKINMPKKA TELKHLQCLE EELKPLEEML KNFLSKDIKE LMSNINVTVL GLKGSETRFT CEYDDETGTI VEFLNKWITF CQSIFSTMT.
Bioactivity	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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**

2

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA