A brand under Watson

ChemUhot Recombinant Equine Interleukin-2 Cys141Ser (rEqIL-2 Cys141Ser)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	1F1-02A
Source:	Escherichia coli.
Molecular Weight:	Approximately 14.9 kDa, a single non-glycosylated polypeptide chain containing 129 amino acids.
Quantity:	2µg/10µg/1000µg
AA Sequence:	APTSSSKRET QQQLKQLQMD LKLLLEGVNN NKNPKLSKML TFKINMPKKA
	TELKHLQCLE EELKPLEEML KNFLSKDIKE LMSNINVTVL GLKGSETRFT
	CEYDDETGTI VEFLNKWITF SQSIFSTMT
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation
	assay using murine CTLL-2 cells is less than 1.0 μ g/ml, corresponding to a specific activity of > 1000
	IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 6.5.
Endotoxin:	Less than 0.1 EU/µg of rEqIL-2 Cys141Ser as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the
	bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a
	concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and
	stored at \leq -20 $\mathbb C$. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature
	recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
	• 12 months from date of receipt, -20 to -70 °C as supplied.
	 1 month, 2 to 8 °C under sterile conditions after reconstitution.
	• 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further
	evaluation purposes. NOT FOR HUMAN USE.

Equine Interleukin-2

IL-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is expressed by CD4+ and CD8+ T cells, γδ T cells, B cells, dendritic cells, and eosinophils. IL-2/IL-2R signaling is required for Tcell proliferation and other fundamental functions which are essential for the immune response. The receptor for IL-2 consists of three subunits (55 kDa IL2R α , 75 kDa IL2R β , 64 kDa common gamma chain $\gamma c/IL2R\gamma$) that are present on the cell surface in varying preformed complexes. Recombinant equine IL-2 is a 14.9 kDa protein containing 129 amino acid residues. At the amino acid sequence level, equine IL-2 shares 72 %, 70 %, 56 % and 54 % sequence similarities with human, porcine, rat and murine IL-2, respectively. It has been reported that equine IL-2 augmented proliferation in equine peripheral blood mononuclear cells, but has no effect on murine CTLL2 cells.

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