

Product Datasheet

Recombinant Human Interleukin-2 (rHulL-2) (orb1495078)

Description	Interleukin 2 is a protein that has a variety of immunologic functions, the most notable being the ability of IL-2 to promote the proliferation and maturation of activated T cells. A comparison of the amino acid sequences of human and murine IL-2 shows an approximately 60% sequence similarity, and human sequence IL-2 has been found to be active on murine cell lines. Some of the biological activities attributed to IL-2 include: \bullet induction of secretion of interferon- γ and tumor necrosis factors - α and - β from peripheral blood mononuclear cells \bullet stimulation of the rate of synthesis of c-myc RNA and transferrin receptor \bullet activation of neutrophils \bullet stimulation of proliferation and maturation of activated helper T cells \bullet stimulation of proliferation of activated and natural killer cells and tumor-infiltrating lymphocytes, as well as enhancement of the ability of these cytotoxic lymphocytes to kill target cells \bullet induction of antibody-producing B cells
Endotoxins	Less than 1EU/ g of rHulL-2 as determined by LAL method.
Preservatives	Lyophilized from a 0.2 m filtered concentrated solution in PBS, pH 7.5.
Form/Appearance	Lyophilized from a 0.2 m filtered concentrated solution in PBS, pH 7.5.
Storage	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Note	For research use only
Application notes	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 -20°C. Further dilutions should be made in appropriate buffered solutions.

Biorbyt Ltd.

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Protein Sequence	MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT
Purity	> 97% by SDS-PAGE and HPLC analyses.
Source	Escherichia coli.
MW	Approximately 15 kDa, a single non-glycosylated polypeptide chain containing 134 amino acids.
Expiration Date	6 months from date of receipt.

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