

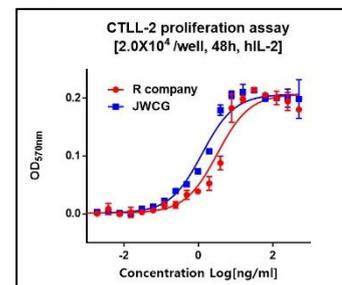
## DATA SHEET

### Product Information

<b>Product Name</b>	: <b>Recombinant Human Interleukin 2 (rhIL-2)</b>
<b>Synonyms</b>	: IL2, TCGF, lymphokine, interleukin 2
<b>Description</b>	: Interleukin-2 (IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system. It is a protein that regulates the activities of white blood cells that are responsible for immunity. In the thymus, where T cells mature, it prevents autoimmune diseases by promoting the differentiation of certain immature T cells into regulatory T cells, which suppress other T cells that are otherwise primed to attack normal healthy cells in the body. IL-2 also promotes the differentiation of T cells into effector T cells and into memory T cells when the initial T cell is also stimulated by an antigen, thus helping the body fight off infections. (Ref. From Wikipedia)
<b>NCBI Accession No.</b>	: NM_000586.3
<b>Amino acid sequence</b>	: MAPTSSSTKKTQLQLEHLLLDLQMI L N G I N N Y K N P K L T R M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E V L N L A Q S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F C Q S I I S T L T
<b>Molecular Mass</b>	: 15.5 kDa (134 a.a)
<b>Protein Tags</b>	: No tagging
<b>Source</b>	: <i>E. coli</i> .
<b>Cat. No.</b>	: JW-H031-0010, JW- H031-0025, JW-H031-0100, JW-H031-0250, JW-H031-0500, JW-H031-1000
<b>Storage</b>	: Should be at $\leq -70$ °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
<b>Cross Reactivity</b>	: Human, Mouse, Rat, Monkey

### Quality Control

Test items	Specifications
<b>Appearance</b>	: Clear, colorless liquid
<b>Purity</b>	: Greater than 98 % by RP-HPLC and SDS-PAGE
<b>Specificity</b>	: Using Western blot, detection
<b>Concentration</b>	: 0.1 mg/ml, Bradford method Determined by proliferation of CTLL-2 indicator cells.
<b>Biological Activity</b>	: The ED50 is $\leq 0.05$ ng/ml, corresponding to a specific activity of $\geq 2.0 \times 10^7$ IU/mg
<b>Endotoxin</b>	: Less than 0.1 EU/ $\mu$ g as determined by the LAL method
<b>Formulation</b>	: 50mM Tris, 10% Glycerol (pH 8.0) without preservative or carrier proteins.
<b>Stability</b>	: Stable for up to 12 months at $-70$ °C. Stable for a month at 4 °C.
<b>Sterility</b>	: Sterilized through a 0.2 $\mu$ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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