

## IL-2/TCGF/Aldesleukin, Human, Recombinant

Cat. No. : PCK023

### General Information

<b>Synonyms</b>	T-cell Growth Factor (TCGF);Aldesleukin
<b>Species</b>	Human
<b>Expression host</b>	E.coli
<b>Sequence</b>	MAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEL KPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQSIIS TLT with polyhistidine tag at the C-terminus.
<b>Accession</b>	P60568.1
<b>Tag</b>	His-tag at the C-terminus
<b>Mol mass</b>	16.4 kDa
<b>Expiration date</b>	12 months
<b>Bio activity</b>	Measure by its ability to induce proliferation in CTLL-2 cells. The ED50 for this effect is < 0.2 ng/mL. The specific activity of recombinant human IL-2 is approximately > 2.5 × 10 <sup>7</sup> IU/mg. Measure by its ability to induce proliferation in NK cells. The ED50 for this effect is < 46 ng/mL.

### Product feature

<b>Purity</b>	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
<b>Endotoxin (EU/μg)</b>	< 0.1
<b>Storage</b>	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
<b>Shipping</b>	Ice bag
<b>Formulation</b>	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

### Background

Interleukin-2 (IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system. It is a 15,5-16 kDa protein that regulates the activities of white blood cells (leukocytes, often lymphocytes) that are responsible for immunity. IL-2 is part of 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.