

IL-2/TCGF/Aldesleukin, Mouse, Recombinant

Cat. No. : PCK025

General Information

Synonyms	T-cell Growth Factor (TCGF);Aldesleukin
Species	Mouse
Expression host	E.coli
Sequence	MAPTSSSTSSSTAEEAQQQQQQQQQQHLEQLLMDLQELLSRMENYRNKLPRLMTFKFYLPKQATELKDQLQCLEDELGPLRHVLDLTQSKSFQLEDAENFISNIRVTVVKLKGSNDTFECQFDD ESATVVDFLRRWIAFCQSIISTSPQ with polyhistidine tag at the C-terminus.
Accession	P04351.1
Tag	His-tag at the C-terminus
Mol mass	18.2 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce CTLL-2 cells proliferation. The ED50 for this effect is < 0.3 ng/mL. The specific activity of recombinant mouse IL-2 is approximately > 3×10 ⁶ IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	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.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	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.