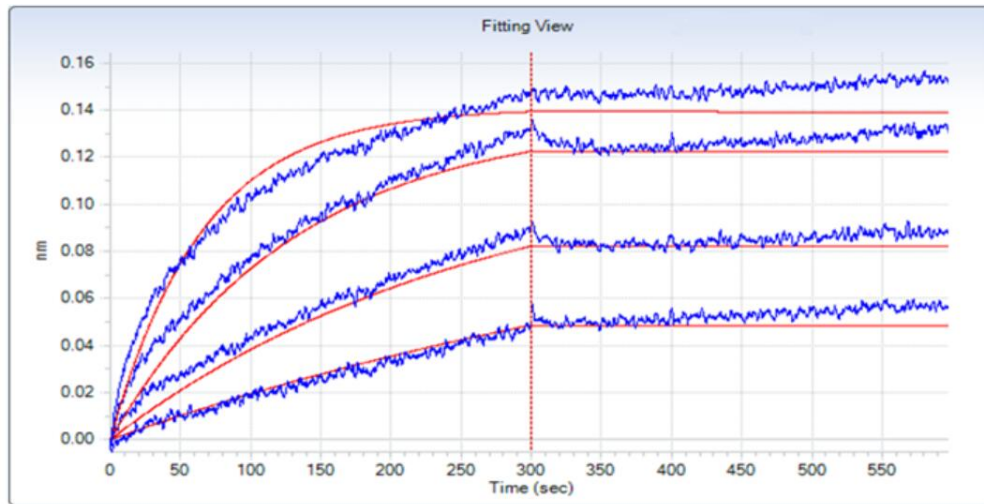


Recombinant Human IL2 Protein, No Tag

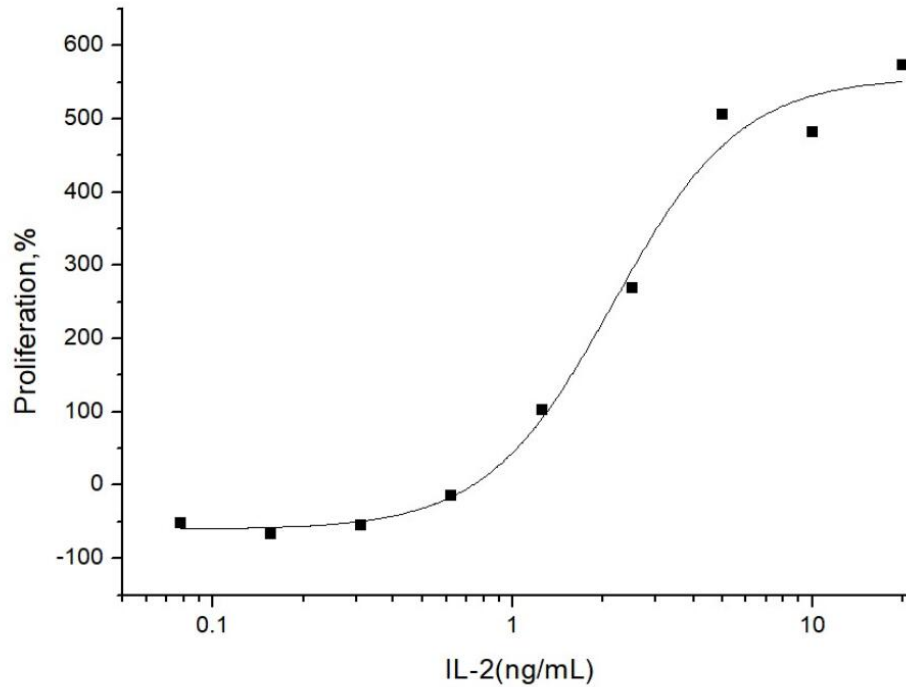
Product Information

Cat	IMP-4692
Official Symbol	IL2
Product Overview	Recombinant mature form of human IL2 (P60568-1) (Ala 21-Thr 153) was expressed and purified with an initial Met.
Description	<p>Interleukin-2, also known as a T-cell growth factor, TCGF, Aldesleukin, and IL2, is a secreted protein that belongs to the IL-2 family. Interleukin-2 / IL-2 was the first interleukin molecule to be discovered. Interleukin-2 / IL-2 molecule was first purified to homogeneity by immunoaffinity chromatography by Kendall Smith and his team at Dartmouth Medical School. Interleukin-2 / IL-2 was also the first cytokine shown to mediate its effects via a specific IL-2 receptor, and it was also the first interleukin to be cloned and expressed from a complementary DNA (cDNA) library. Interleukin-2 / IL-2 was designated number 2 because Smith's data at the time indicated that IL-1, produced by macrophages, facilitates IL-2 production by T lymphocytes (T cells).</p>
Expression System	<i>E. coli</i>
Species	Human
Tag	No Tag
Predicted N Terminal	Met
Form	Supplied as sterile 20mM HAc-NaAc+0.004% Tween-80 pH 4.0
Molecular Mass	The recombinant human IL-2 consists of 134 amino acids and predicts a molecular mass of 15.5 kDa.
Protein length	Ala21-Thr153
Endotoxin	< 5 EU/mg of the protein.
Purity	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Storage	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Bioactivity-BLI 1	



Using the Octet RED System, the affinity constant (K_d) of IL2 Protein, Human, Recombinant bound Anti-IL2 Antibody was 0.1 nM.

Bioactivity-Cell based assay 1



Measured in a cell proliferation assay using CTLL2. The ED50 for this effect is typically 1-8 ng/mL. The specific activity of recombinant human IL-2 is approximately 20,000 IU/ μ g.