

GFM17 Recombinant Mouse IL-2

Description

Interleukin-2 (IL-2) is an immunomodulatory cytokine that is produced by lymphocytes. IL-2 signals through the IL-2R receptor to induce activated T cell proliferation and promote T cell differentiation. IL-2 also stimulates the proliferation and differentiation of B cells, Natural Killer cells, monocytes, and macrophages.

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| Length | 150 aa |
| Molecular Weight | 17.4 kDa |
| Source | E. coli |
| Accession Number | P04351 |
| Purity | ≥95% determined by reducing and non-reducing SDS-PAGE |

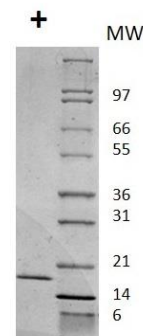
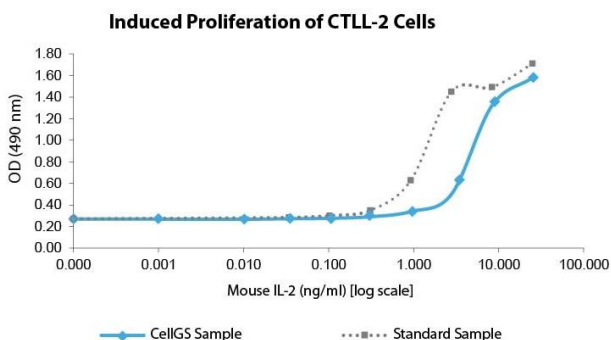
Specifications

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| Alternative Names | Interleukin-2, interleukin 2, IL2, IL 2, T cell growth factor, TCGF, Aldesleukin |
| Biological Activity | Mouse IL-2 is fully biologically active when compared to standard. The activity is determined by the ability to induce CTLL-2 cells proliferation and it is typically less than 5 ng/ml. This corresponds to an expected specific activity of 2×10^5 units/mg. |
| Endotoxin Level | ≤1.00 EU/μg as measured by kinetic LAL |
| Formulation | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, pH 4.0 |
| AA Sequence | MAPTSSSTSS STAEAQQQQQ QQQQQQHLE QLLMDLQELL SRMENYRNLK LPRMLTFKFY LPKQATELKD LQCLEDELGP LRHVLDLTQS KSFQLEDAEN FISNIRVTVV KLKGSNDTFE CQFDDESATV VDFLRRWIAF CQSIISTSPQ |

Preparation and Storage

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| Reconstitution | Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM acetic acid at 0.1 mg/ml, which can be further diluted into other aqueous solutions. |
| Stability and Storage | 12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed. |

Data



Induced proliferation of CTLL-2 cells for Mouse IL-2. Cell proliferation was measured to calculate the ED50, which is as expected less than 5 ng/ml.

Reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue, 1 μg of protein was loaded. Mouse IL-2 has a predicted Mw of 17.4 kDa.