

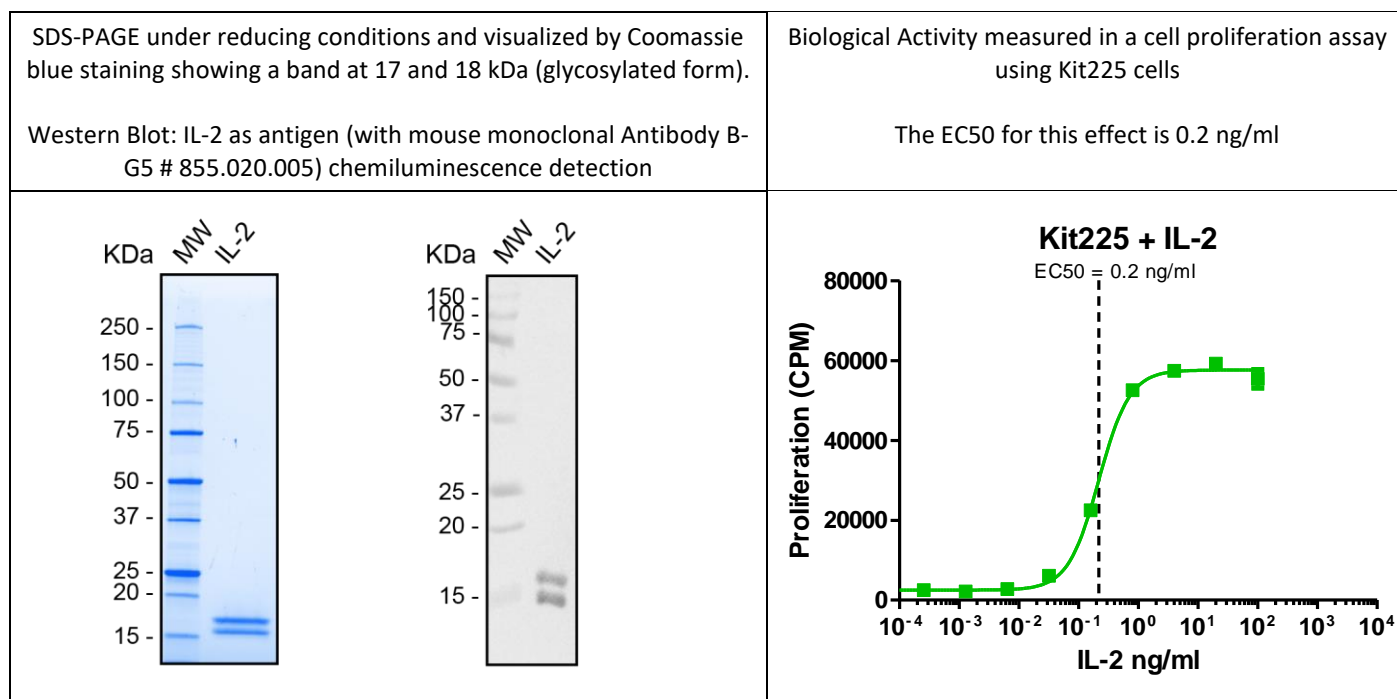
## DESCRIPTION

<i>Description</i>	Recombinant Human Interleukine-2 (IL-2), NCBI Accession Number: P60568
<i>Sequence</i>	Ala21-Thr153
<i>Expression system</i>	HEK293 cells
<i>Tag</i>	His Tag C-Terminus
<i>Purification</i>	Affinity chromatography followed by Ion exchange chromatography
<i>Extinction coefficient</i>	10095 M <sup>-1</sup> .cm <sup>-1</sup> Abs 0.1% (=1 g/l) 0.617 assuming all pairs of Cys residues form cystines
<i>Predicted Molecular Weight</i>	16.4 kDa

## SPECIFICATIONS

<i>SDS Page</i>	17 & 18 kDa, second band results of glycosylation (confirmed by mass spectrometry)
<i>Concentration</i>	10µg/vial (715-H02-010-BSA) or 25 µg/vial (715-H02-025-BSA)
<i>Purity</i>	>95% by SDS PAGE gel
<i>Formulation</i>	Lyophilized from PBS pH 7.4 (NaCl 155mM, Na <sub>2</sub> HPO <sub>4</sub> 8mM & KH <sub>2</sub> PO <sub>4</sub> , 1.8mM, Trehalose) with BSA as carrier protein
<i>Reconstitution</i>	Centrifuge the vial prior opening It is recommended to reconstitute in sterile water at 100 µg/ml
<i>Endotoxins</i>	Negative on cell based assay
<i>Activity</i>	Measured in a cell based assay on stimulated Kit225 cells (EC <sub>50</sub> = 0.2 ng/ml)
<i>Stability and Storage</i>	Store at -20°C. Avoid repeated freeze-thaw cycles Stable one week at 2 to 8°C after reconstitution under sterile conditions Stable 12 months -20°C to -80°C after reconstitution under sterile conditions

## DATA



## HUMAN IL-2

IL-2 is a powerful immunoregulatory lymphokine produced by T-Cells in response to antigenic or mitogenic activation (1). IL-2 stimulates growth and differentiation of B-Cells, most T-cells, NK cells, monocytes and macrophages (2,3,4).

Mature IL-2 is a 15.4 kDa globular glycoprotein containing 133 amino acid residues including one intrachain disulfide bond between residues 58 and 105 (5).

Apart from its most important role to mediate antigen-specific T-lymphocyte proliferation (6), IL-2 modulates the expression of interferon- $\gamma$  (7) and major histocompatibility antigens.

Alterations in the ability of T-cell to synthesize IL-2 have been observed in physiologic and pathologic states. Currently, IL-2 is used to enhance the immune system of patients for the treatment of cancer and infectious disease.

## RELATED PRODUCTS

Code	Products	Quantity
715-H02-XXX-CF	Recombinant Human Interleukin-2 (IL-2)-CF	10/25 $\mu$ g
855.020.000	Anti-Human IL-2 Azide Free (Clone B-G5)	200 $\mu$ g/200 $\mu$ l
855.020.005	Anti-Human IL-2 Azide Free (Clone B-G5)	500 $\mu$ g/500 $\mu$ l
950.010.048	Human IL-2 ELISA Kit (CE marked)	48 tests
950.010.096	Human IL-2 ELISA Kit (CE marked)	96 tests
950.010.192	Human IL-2 ELISA Kit (CE marked)	192 tests
851.500.XXX	Human IL-2 ELISA Set	96 to 20 x 96 tests
856.001.001PC	Human IL-2 ELISpot Kit	96 tests
856.001.002PC	Human IL-2 ELISpot Kit	2 x 96 tests
856.001.005PC	Human IL-2 ELISpot Kit	5 x 96 tests
856.001.XXX	Human IL-2 ELISpot Set	96 to 20 x 96 tests
869.000.010	Human IL-2 ELISpot Pair	10 x 96 tests

## BIBLIOGRAPHY

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Products Manufactured and Distributed by:

Diacclone SAS

6 Rue Dr Jean-François-Xavier Girod

BP 1985, 25020 Besançon Cedex

France

Tel +33 (0)3 81 41 38 38 Fax +33 (0)3 81 41 36 36

Email: [info@diacclone.com](mailto:info@diacclone.com) [www.diacclone.com](http://www.diacclone.com)