

Human CellExp™ IL-2, Human Recombinant

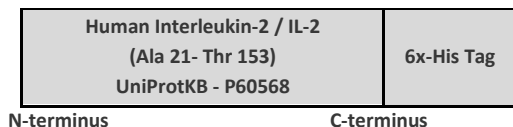
CATALOG #: P1385-10 10 µg
P1385-50 50 µg

ALTERNATE NAMES: T-cell growth factor (TCGF), Aldesleukin, Lymphokine, IL-2.

SOURCE: HEK 293 cells (Ala 21 – Thr 153)

PURITY: > 95% by SDS - PAGE

MOL. WEIGHT: 16 kDa with a 6xHis tag at the C-terminus



FORMULATION: Lyophilized from 0.22 µm filtered PBS (pH 7.4) with 5% trehalose

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS (pH 7.4). Do not vortex.

STORAGE CONDITIONS: Aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

Interleukin-2 (IL-2) is a potent immuno-modulator, which mediates a wide range of immune and inflammatory responses and is important for the proliferation of T and B lymphocytes. IL-2 is one of the key cytokines for the immune system, tolerance and immunity. It has been approved for the treatment of metastatic renal cell carcinoma and metastatic melanoma in cancer immunotherapy with long term disease control. In addition to being used as monotherapy, IL-2 can also be combined with other anticancer immunotherapies, such as adoptive cell transfer, vaccination, and blockade of immune checkpoint inhibitory molecules, such as cytotoxic T lymphocyte-associated antigen 4 and programmed death 1 monoclonal-antibodies as a promising treatment for metastatic cancer.

BIOLOGICAL ACTIVITY:

ED₅₀ is typically 0.2 to 2 ng/mL. The specific activity was determined by the dose dependent stimulation of the proliferation of mouse CTLL-2 cells (mouse cytotoxic T cell line) using BioVision's Quick Cell Proliferation colorimetric Assay Kit Plus (Cat. No. K302).

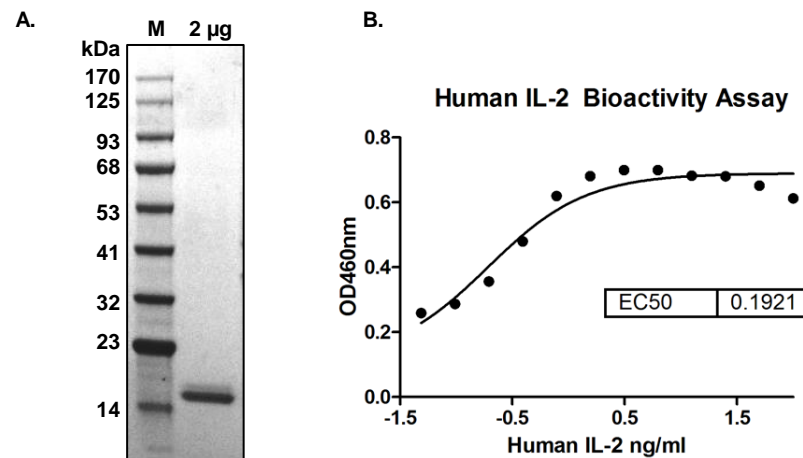


Fig. A. SDS-PAGE (4-20%) of Recombinant IL-2: 2 µg of the recombinant IL-2 is loaded under reducing conditions and stained with Coomassie Blue. Two protein bands around 16kDa were detected due to glycosylation.

Fig. B. Biological activity: Measured in a cell proliferation assay using BioVision's Colorimetric Assay kit (Cat. No. K302). The ED₅₀ for this effect is typically in a single digit ~ 1ng/mL

RELATED PRODUCTS:

- Quick Cell Proliferation colorimetric Assay Kit Plus (**K302**)
- IL-2, human recombinant (**4131**)
- IL-2, murine recombinant (**4132**)
- IL-2, rat recombinant (**4133**)
- IL-2 Antibody (**5133**)
- IL-2 Antibody (**5131**)
- Human CellExp™ IL-2, Human Recombinant (**6461**)

FOR RESEARCH USE ONLY! Not to be used in humans.