COSMO BIO CO., LTD.

PRODUCT DATA SHEET

Product: **IL-2 (recombinant human)**

Cat. No.: **BC-274 (50 μg)**

Synonyms*:*
Interleukin-2 precursor, T-cell growth factor, TCGF, Aldesleukin

Description:
Recombinant Human IL-2 produced in E.Coli is a single, non-glycosylated mutein (variant form) of human IL-2 polypeptide chain containing 134 amino acids and having a molecular mass of 15,517 Dalton. Our recombinant human IL-2 has a Serine substitute for Cysteine at position 126. The recombinant human IL-2 is purified by proprietary chromatographic techniques.

Amino Acid Sequence:
The sequence of the first five N-terminal amino acids was determined to be Met-Ala-Pro-Thr-Ser.

Origin:
Produced in *E. Coli*.

Format:
Sterile filtered white powder. Lyophilized after extensive dialysis against 0.17 mg sodium monobasic and 0.89 mg dibasic sodium phosphate buffer to a pH of 7.5.

Purity:
Greater than 98.0% as determined by RP-HPLC, anion-exchange FPLC, reducing and non-reducing SDS-PAGE Silver Stained gel.
Dimers and aggregates: less than 1% as determined by SDS-PAGE.

Endotoxin:
Less than 0.1 ng/μg (IEU/μg) of recombinant human IL-2.

Reconstitution:
Reconstitute in sterile 20 mM acetic acid (AcOH) not less than 100 μg/mL, which can then be further diluted to other aqueous solutions.

Biological Activity:
Recombinant human IL-2 is fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of mouse CTLL-2 cells is less then 0.0645 ng/mL, corresponding to a Specific Activity of 16.9 MIU/mg.

Storage:
Lyophilized recombinant human IL-2, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution recombinant human IL-2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Limitations:
For *in vitro* research use only. Not for use in diagnostics or in humans.