Interleukin-2 Murine E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Murine
Other names: IL-2, Aldesleukin, T cell growth factor, lymphokine

Cat. No.:

RBG20002005	(5 µg)
RBG20002020	(20 µg)
RBG20002100	(100 µg)

Description

IL-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions that are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine-activated killer cells, monocytes, macrophages and oligodendrocytes. Recombinant Murine IL-2 is a 17.2 kDa protein containing 148 amino acid residues.

Introduction to the Molecule

Interleukin-2 plays a central role in the activation and proliferation of lymphocytes that have been primed by antigens. IL-2 plays a pivotal role in the expansion of most T-cells, natural killer cells and B cells during certain phases of their response.

Research topic

Animal studies, Cytokines and chemokines and related molecules

Amino Acid Sequence

```
PTSSSTSSST AEAQQQQQQQ QQQQQHLEQL LMDLQELLSR MENYRNLKLP RMLTFKFYLP KQATELKDLQ CLEDELGPLR
HVLDLTQSKS FQLEDAENFI SNIRVTVVKL KGSDNTFECQ FDDESATVVD FLRRWIAFCQ SIISTSPQ
```

Source

E. coli

Purity

98%

Biological Activity

The ED_{50} as determined by the dose dependent stimulation of murine CTLL-2 cells is 0.2 ng/ml, corresponding to a specific activity of 5×10^6 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com