

Interleukin-2 Rat E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG30002005	(5 µg)
Species: Rat	RBG30002020	(20 µg)
Other names: IL-2, Aldesleukin, T cell growth factor, lymphokine	RBG30002100	(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 Rat IL-2 is a 15.3 kDa protein containing 134 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

MAPTSSPAKE TQQHLEQLLL DLQVLLRGID NYKNLKLPMML LTFKFYLPKQ ATELKHLQCL ENELGALQRV LDLTQSKSFH
LEDAGNFISN IRVTVVKLKG SENKFECQFD DEPATVVEFL RRWIAIAQSI ISTM

Source

E. coli

Purity

98%

Biological Activity

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of murine CTLL-2 cells is 0.4 ng/ml, corresponding to a specific activity of 2.5×10⁶ 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. 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

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: info@biovendor.com sales@biovendor.com Web: 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