

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-11, Human(CHO-expressed)

Catalog Number: BK0228-5µg

Source: CHO

Quantity: 5µg

Description:

Interleukin-11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1 α -stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 has multiple effects on both hematopoietic and non-hematopoietic cells. Many of the biological effects described for IL-11 overlap with those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell-dependent development of specific immunoglobulin-secreting B cells.

Molecular Weight:

~23 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 <5 ng/ml, measured in a proliferation assay using T11 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

PGPPPGPPRVSPDPRAELDSTVLLTRSLAD-
TRQLAAQLRDKFPADGDHNLDSLPT-
LAMSAGALGALQLPGVLRRLRADLLSYL-
RHVQWLRRAGGSSSLKLE-
PELGTLQARLDRLRLRLQLLMSRLALPQPPDP-
PAPPLAPPSSAWGGIRAAHAILG-
GLHLTLDWAVRGLLLKTRL

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Human Interleukin-11 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Interleukin-11 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.