



Recombinant Mouse IL-11
(Interleukin-11)

Catalog Number: 200-64
Accession Number: P47873

Specifications and Uses:

Alternate Names: AGIF (Adipogenesis Inhibitory Factor), oprelvekin

Description:

Interleukin 11 (IL-11) is a pleotropic cytokine closely related to IL-6 in function, but is overall one of the lesser characterized interleukins. In hematopoietic cell populations, IL-11 is thought to induce megakaryocyte differentiation. In non-hematopoietic populations, IL-11 is thought to be able to stimulate hepatic acute-phase proteins. Human IL-11 can stimulate murine cells. Recombinant mouse IL-11 is a non-glycosylated protein, containing 179 amino acids, with a molecular weight of 19.3 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant mouse IL-11 is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 95%) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by the dose-dependent proliferation of mouse T11 and is typically less than 2 ng/mL.

AA Sequence:

MPGPPAGSPR VSSDPRADLD SAVLLTRSLL ADTRQLAAQM RDKFPADGDH SLDSLPTLAM SAGTLGSLQL
PGVLTRLRVD LMSYLRHVQW LRRAGGPSLK TLEPELGALQ ARLERLLRRL QLLMSRLALP QAAPDQPVIP
LGPPASAWGS IRAAHAILGG LHLLTDWAVR GLLLLKTRL

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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