

BACKGROUND:

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 and having a molecular mass of 19.3 kDa.

Cat. No.:
 RP2064AF

Alternate Names:
 AGIF (Adipogenesis Inhibitory Factor), oprelvekin

AA Sequence:

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

TECHNICAL INFO

Source:
E. coli

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

Formulation:
 0.1% Trifluoroacetic Acid (TFA)

Stability:
 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 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
 Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
 The activity is measured by dose-dependent T11 cell proliferation, with Bioactivity Acceptance Criteria ED50 at 2.5 ng/mL.

Animal Component-Free
 This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

