

RMCM029

Recombinant IL-11 (Interleukin-11), Mouse , AF



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5ug;20ug;100ug;500ug;

Synonym/Alternative name(s):

AGIF (Adipogenesis Inhibitory Factor)

Activity:

Measure by its ability to induce T11 cells proliferation.

The ED50 for this effect is <0.5 ng/mL.

The specific activity of recombinant mouse IL-11 is > 2 x 10⁶ IU/mg.

Protein Description:

IL-11 is a cytokine and first isolated in 1990 from bone marrow-derived fibrocyte-like stromal cells. It was initially thought to be important for hematopoiesis, notably for megakaryocyte maturation, but subsequently shown to be redundant for platelets, and for other blood cell types, in both mice and humans. It is also known under the names adipogenesis inhibitory factor (AGIF) and was developed as a recombinant protein (rhIL-11) as the drug substance oprelvekin.

Protein Accession : P47873.1

Gene ID : 16156

Expression Sequence:

PGPPAGSPRVSSDPRADLDSAVLLTRSLLDTRQLAAQMRDKFPADGDHSLDSLPTLAMSAGTLGSLQLPGVLTRLRVDLMSYLRHVQWLRRAAGPSLKTLEPELGALQARLERLLRRLQLLMSRLALPQAAPDQVPVPLGPPASAWGSIRAAHAILGGLHLTLDWAVRGLLLKTRL with polyhistidine tag at the N-terminus.

Fusion tag : His-tag?at?the?N-terminus

Species : Mouse

Reactivity : Mouse

Expression Host : Escherichia coli

Source : E. coli

Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

Endotoxin level:

<0.1 EU per 1 µg of the protein by the LAL method.

Calculated Molecular Weight : 19.96 kDa

Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant mouse IL-11