

Recombinant Mouse IL-11

Information

Gene ID	16156
Accession #	P47873
Alternate Names	
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 19.1 kDa, a single non-glycosylated polypeptide chain containing 179 amino acids.
AA Sequence	MPGPPAGSPR VSSDPRADLD SAVLLTRSL ADTRQLAAQM RDKFPADGDH SLDSLPTLAM SAGTLGSLQL PGVLTSLRVD LMSYLRHVQW LRRAGGPSLK TLEPELGALQ ARLERLLRRL QLLMSRLALP QAAPDQPVIP LGPPASAWGS IRAAHAILGG LHLLTDWAVR GLLLLKTRL
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine T11 cells is less than 2 ng/ml, corresponding to a specific activity of > 5.0 × 10 ⁵ IU/mg.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Mouse IL-11	10 µg	100 µg	500 µg

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Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMull-11 as determined by LAL method.

Description

Interleukin-11 (IL-11) is encoded by the IL11 gene. IL-11 is a multifunctional cytokine first isolated from bone marrow-derived stromal cells. IL-11 receptor activation requires formation of a complex of two IL-11 molecules with two molecules of the ligand-binding IL-11 R α subunit and two molecules of the expressed cell signaling β subunit, gp130. IL-11 is a member of the IL-6 superfamily, distinguished based on their use of the common co-receptor gp130. IL-11 can directly stimulate the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells, and induce megakaryocyte maturation resulting in increased platelet production. Mature murine IL-11 shares 88 % amino acid sequence identity with human IL-11.

Reference

1. Paul SR, Bennett F, Calvetti JA, et al. 1990. Proc Natl Acad Sci U S A. 87:7512-6.
2. Barton VA, Hall MA, Hudson KR, et al. 2000. J Biol Chem. 275:36197-203.

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