# Recombinant Mouse IL11

**Cat No:HR2R2144**

For research use only

## Overview

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|---|---|
| Quantity | 1.0 ?g |
| Gene Symbol | IL11 |
| Gene ID | 16156 |
| Accession | P47873 |
| Alternative Name | IL-11<br/>Recombinant Mouse Interleukin-11 (IL11) |
| Species | Mouse |
| Source | E. coli |
| Description | IL-11 is secreted by bone marrow stromal cells (fibroblasts) and is produced also by a number of mesenchymal cells. The IL-11 receptor (alpha chain) utilizes gp130 as its signal transducer, which is also a component of other cytokine receptors. The alpha chain of the IL-11 receptor has been identified independently as Etl2. IL-11 promotes primary and secondary immune responses in vitro and in vivo and modulates antigen-specific antibody reactions. IL-11 promotes the proliferation of IL-6 dependent plasmacytoma cell lines in the presence of neutralizing IL6 antibodies. IL-11 also stimulates the T cell dependent development of IgG-secreting B cells in spleen cell cultures. IL-11 inhibits the differentiation of pre-adipocytes. It induces the synthesis of some acute phase proteins by hepatocytes. |
| Functions | The ED(50) was determined by the dose-dependent stimulation of the proliferation of murine T11 cells is ? 1.0 ng/mL, corresponding to a specific activity of ? 1.0 x 10^6 units/mg. |
| Formulation | Recombinant mouse IL-11 was lyophilized from a 0.2 ?m filtered PBS solution. |
| Solubility | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers. |
| Appearance | Lyophilized Powder |
| Molecular Weight | 19 |
| Purity | >95% as determined by SDS-PAGE |
| Concentration | <1.0 EU/?g of recombinant protein as determined by the LAL method. |
| Shipping Condition | Ambient Temperature |
| Storage Condition | The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles. |