

## Product datasheet for **TP724635**

### IL11 Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Interleukin-11/IL-11 (N-His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	G23-L199
Tag:	N-6His
Buffer:	Supplied as a 0.2 um filtered solution of 2umM Tris-HCl, 30umM NaCl, 10% Glycerol, pH8.0.
Note:	Recombinant Mouse Interleukin-11 is produced by E.coli. The target gene encoding G23-L199 is expressed with a 6His tag at the N terminus.
Stability:	12 months from date of despatch
Locus ID:	16156
UniProt ID:	<a href="#">P47873</a>
Summary:	Interleukin 11 (IL-11) is a pleiotropic cytokine that belongs to the IL-6 family. As a thrombopoietic growth factor, IL-11 directly stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production. IL-11 also promotes the proliferation of hepatocytes in response to liver damage. Binding to its receptor formed by IL6ST and either IL11RA1 or IL11RA2, it activates a signaling cascade that promotes cell proliferation. The signaling leads to the activation of intracellular protein kinases and the phosphorylation of STAT3. IL-11 is found to improve platelet recovery after chemotherapy-induced thrombocytopenia, induce acute-phase proteins, modulate antigen-antibody responses, participate in the regulation of bone cell proliferation and differentiation, and could be used as a therapeutic for osteoporosis.



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