10 µg



Human IL-11 Recombinant Protein



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MW (kDa):	UniProt ID:	Entrez-Gene Id:	
19.3	#P20809	3589	
Background		Interleukin-11 (IL-11) was initially cloned as a mediator of plasmacytoma cell proliferation an found to exhibit a wide variety of biological effects in neural cells as well as in the hematopoi immune systems (1). IL-11 belongs to the interleukin-6 (IL-6)-type subfamily of long-chain he cytokines, including IL-6, ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), o M, and cardiotrophin-1, which all share the glycoprotein gp130 as a signal transducing recep component. IL-11 acts on cells expressing gp130 and the IL-11 receptor (IL-11R) α subunit. Be receptor subunits belong to the family of class I cytokine receptors. The complex of IL-11 and triggers the activation of gp130 most likely by enforcing gp130 homodimerization (2). As a consequence of gp130 activation, several cytoplasmic signal transduction cascades are initiated Janus kinase (Jak)/signal transducer and activator of transcription (Stat) pathway, which hattracted considerable attention. Initiation of the Jak/Stat pathway in response to IL-11 requiand leads predominantly to the activation of Stat3 (3,4).	ietic and dical oncostatin otor oth d IL-11R ted from

Endotoxin

Purity

Source / Purification

Bioactivity

Background References

Endotoxin levels are less than or equal to 1 EU / 1 μ g hIL-11.

A greater than or equal to 95% purity was determined by SDS-PAGE.

Recombinant human IL-11 was expressed in E. coli and is supplied in a lyophilized form.

The bioactivity of recombinant hIL-11 was determined in a TF-1 cell proliferation assay. The ED₅₀ of

each lot is less than or equal to 10 ng/ml.

1. Du, X. and Williams, D.A. (1997) Blood 89, 3897-908.

2. Tacken, I. et al. (1999) Eur J Biochem 265, 645-55.

3. Dahmen, H. et al. (1998) Biochem J 331 (Pt 3), 695-702.

4. Kiessling, S. et al. (2004) J Biol Chem 279, 10304-15.

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