

Human Interleukin-28B (hIL-28B/IFN- λ 3)

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
21	#Q8IZI9	282617
Background	IL-28B is a member of the Interferon λ family of cytokines, which includes IL-29 and IL-28A (1). IL-28B is produced by a number of cell types and shares many functions with Type I Interferons (1-3). IL-28B exhibits anti-viral activities <i>in vitro</i> and <i>in vivo</i> (1,2). Investigators have found that IL-28B directly inhibits tumor cell proliferation and promotes anti-tumor immune responses <i>in vivo</i> (1,3). The IL-28 receptor is a heterodimer of the IL-28R α and IL-10RI (1). IL-28B activates Stat1, Stat3, and Stat5 (1). IL-28R α expression is limited to a few cell types, including plasmacytoid DC and epithelial cells (1).	
Endotoxin	Less than 0.01 ng endotoxin/1 μ g hIL-28B.	
Purity	>98% as determined by SDS-PAGE of 6 μ g reduced (+) and non-reduced (-) recombinant hIL-28B. All lots are greater than 98% pure.	
Source / Purification	Recombinant human IL-28B (hIL-28B) Arg26-Val196 (Accession #NP_742151) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant hIL-28B was determined in a virus protection assay. The ED ₅₀ of each lot is between 0.4-9 ng/ml.	
Background References	<ol style="list-style-type: none"> Li, M. et al. (2009) <i>J Leukoc Biol</i> 86, 23-32. Ank, N. et al. (2006) <i>J Virol</i> 80, 4501-9. Numasaki, M. et al. (2007) <i>J Immunol</i> 178, 5086-98. 	

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