

Mouse_{His6}Interleukin-21 (m_{His6}IL-21)

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
15-25	#Q9ES17	60505
Background	IL-21 is a pleiotropic type I cytokine that is produced by CD4+ T cells, Th17 cells and NKT cells (1,2). The IL-21 receptor is a heterodimer that consists of an IL-21R and the common γ chain, γc (1). IL-21/IL-21R signaling involves activation of JAKs1/3, STAT3 and, to a lesser extent, STAT5 and STAT1 (1,2). IL-21 promotes B cell proliferation, survival and differentiation into plasma cells (3,4). IL-21 activates the cytolytic functions of CD8+ T cells and NK cells, and has been shown in mouse models to play a key role in immunity to chronic viral infections and promote anti-tumor immunity (5-7).	
Endotoxin	Less than 0.01 ng endotoxin/1 μ g m _{His6} IL-21.	
Purity	>95% as determined by SDS-PAGE of 6 μ g reduced (+) and nonreduced (-) recombinant m _{His6} IL-21. All lots are greater than 95% pure.	
Source / Purification	Recombinant mouse m _{His6} IL-21 (m _{His6} IL-21) Pro25-Ser146 (Accession #NP_068554.1) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant m _{His6} IL-21 was determined in a B9 cell proliferation assay. The ED ₅₀ of each lot is between and 20-80 pg/ml.	
Background References	<ol style="list-style-type: none"> 1. Leonard, W.J. et al. (2008) <i>J Leukoc Biol</i> 84, 348-56. 2. Spolski, R. and Leonard, W.J. (2008) <i>Curr Opin Immunol</i> 20, 295-301. 3. Parrish-Novak, J. et al. (2000) <i>Nature</i> 408, 57-63. 4. Parrish-Novak, J. et al. (2002) <i>J Leukoc Biol</i> 72, 856-63. 5. Pan, X.C. et al. (2013) <i>Oncol Lett</i> 5, 90-96. 6. Fröhlich, A. et al. (2009) <i>Science</i> 324, 1576-80. 7. Yi, J.S. et al. (2009) <i>Science</i> 324, 1572-6. 	

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