

MW (kDa): 55	UniProt ID: #Q8K3I6	Entrez-Gene Id: 246779
Background		IL-27 is a heterodimer that consists of p28 and EBI3 (1). Antigen presenting cells including monocytes, macrophages, and dendritic cells are the primary sources of IL-27 (1). IL-27 is a pleiotropic cytokine with both pro- and anti-inflammatory activities. IL-27 suppresses TH17 responses and promotes type I regulatory cell differentiation (2-4). In contrast, IL-27 has been shown to play a pro-inflammatory role in a mouse model of T cell-induced colitis (5). IL-27 may also have anti-viral activities (6). IL-27 exerts its effects through a heterodimeric receptor consisting of WSX-1 and gp130 (1,7). IL-27-induced signaling results in Stat1 and Stat3 phosphorylation (1,7).
Endotoxin		Less than 0.01 ng endotoxin/1µg m _{His6} IL-27.
Purity		>97% as determined by SDS-PAGE of 6 μg reduced (+) and non-reduced (-) recombinant m _{His6} IL-27. All lots are greater than 97% pure.
Source / Purification	on	Recombinant mouse _{His6} IL-27 (m _{His6} IL-27) is a heterodimer that is composed of EBI3 Tyr19-Pro228 (Accession# NP_056581) linked to p28 Phe29-Ser234 (Accession# NP_663611) via the linker GGGSGGGSGGGSGGGS. m _{His6} IL-27 was expressed in human 293 cells at Cell Signaling Technology.
Bioactivity		The bioactivity of m _{His6} IL-27 was determined in a virus protection assay. The ED ₅₀ of each lot is between 1-6 ng/ml.
Background Refer	ences	 Pflanz, S. et al. (2002) <i>Immunity</i> 16, 779-90. Villarino, A.V. et al. (2010) <i>J Immunol</i> 185, 6461-71. Apetoh, L. et al. (2010) <i>Nat Immunol</i> 11, 854-61. Murugaiyan, G. et al. (2010) <i>Proc Natl Acad Sci U S A</i> 107, 11495-500. Cox, J.H. et al. (2011) <i>J Exp Med</i> 208, 115-23. Bender, H. et al. (2009) <i>Hepatology</i> 50, 585-91. Pflanz, S. et al. (2004) <i>J Immunol</i> 172, 2225-31.
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