

Mouse His₆Interleukin-33 (m_{His6}IL-33)

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
22	#Q8BVZ5	77125
Background	IL-33 is a novel member of the IL-1 family of proteins that was discovered in a computational search to identify unknown family members (1). IL-33 is expressed by fibroblasts and endothelial cells, and is upregulated in response to inflammatory stimuli (1). IL-33 plays a key role in Th2 type inflammatory responses, including atopic allergic responses and asthma (1,2). The IL-33 receptor consists of the ST2 and IL-1 accessory protein (IL-1-Acp) (1,3). ST2 is expressed on mast cells, basophils and Th2 cells (1). In addition to its putative role as a Th2 cytokine, IL-33 also contains a nuclear localization domain and may function as a nuclear factor (4,5). The nuclear function of IL-33 remains unclear. IL-33 is released by cellular necrosis, similar to other "alarmins", thereby signaling tissue injury (5,6). However, more recent data suggests that IL-33 may also be actively secreted from live cells via a non-classical mechanism (7).	
Endotoxin	Less than 0.01 ng endotoxin/1 µg m _{His6} IL-33.	
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant m _{His6} IL-33. All lots are greater than 98% pure.	
Source / Purification	Recombinant mouse His ₆ IL-33 (m _{His6} IL-33) Ser109-Ile266 (Accession #NP_598536) was produced in <i>E.coli</i> at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant m _{His6} IL-33 was determined by its ability to induce IL-13 production by MC/9 cells. The ED ₅₀ of each lot is between 1-6 ng/ml.	
Background References	<ol style="list-style-type: none"> Liew, F.Y. et al. (2010) <i>Nat Rev Immunol</i> 10, 103-10. Chackerian, A.A. et al. (2007) <i>J Immunol</i> 179, 2551-5. Borish, L. and Steinke, J.W. (2011) <i>Curr Allergy Asthma Rep</i> 11, 7-11. Moussion, C. et al. (2008) <i>PLoS One</i> 3, e3331. Cayrol, C. and Girard, J.P. (2009) <i>Proc Natl Acad Sci U S A</i> 106, 9021-6. Lüthi, A.U. et al. (2009) <i>Immunity</i> 31, 84-98. Kakkar, R. et al. (2012) <i>J Biol Chem</i> 287, 6941-8. 	

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