

Mouse His6 Interleukin-25/IL-17E (mHis6IL-25)

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
30	#Q8VHH8	140806
Background	IL-25, also known as IL-17E, is a member of the IL-17 superfamily of cytokines. IL-25 is expressed in epithelial cells, CD4 ⁺ T cells, mast cells, and eosinophils (1). Many cell types are responsive to IL-25, including T cells, macrophages, and epithelial cells (1). The receptor for IL-25 consists of a heterodimer of IL-17RA and IL-17RB (1,2). IL-25 promotes Th2 type immune responses by induction of IL-5, IL-4, and IL-13 and may contribute to allergic inflammation and asthma (1-3). IL-25 has also been shown in research to promote Th9 cell activation and induce apoptosis in breast cancer cells (4,5).	
Endotoxin	Less than 0.01 ng endotoxin/1 µg mHis6IL-25.	
Purity	>97% as determined by SDS-PAGE of 6 µg reduced (+) and nonreduced (-) recombinant mHis6IL-25. All lots are greater than 97% pure.	
Source / Purification	Recombinant mouse His6IL-25 (mHis6IL-25) Val17-Ala169 (Accession #NP_542767) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant mHis6IL-25 was determined in mouse splenocyte and HT-29 cell cytokine secretion assays. The ED ₅₀ of each lot is between 0.5-1.5 ng/ml in mouse splenocyte cells and 0.25-1.5 ng/mL in HT-29 cells.	
Background References	<ol style="list-style-type: none"> Iwakura, Y. et al. (2011) <i>Immunity</i> 34, 149-62. Rickel, E.A. et al. (2008) <i>J Immunol</i> 181, 4299-310. Petersen, B.C. et al. (2012) <i>Nat Med</i> 18, 751-8. Angkasekwinai, P. et al. (2010) <i>Nat Immunol</i> 11, 250-6. Furuta, S. et al. (2011) <i>Sci Transl Med</i> 3, 78ra31. 	

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