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#27313**Human/Mouse/Rat Activin A
Recombinant Protein**

10 µg


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MW (kDa):	UniProt ID:	Entrez-Gene Id:
26	#P08476	3624
Background	Activin A is a pleiotropic cytokine that plays an important role in the regulation of the immune response and has been shown to possess both proinflammatory and anti-inflammatory activities (1-3). This cytokine is a member of the TGF- β superfamily known to signal through the Smad- and MAPK-dependent pathways by binding to the activin receptors type I (Alk2, Alk4) and type II (ActRIIA, ActRIIB) (1,2). Activin A is expressed by several cell types, including endothelial cells, mast cells, monocytes, macrophages, and dendritic cells (DCs) (4-6). The effect that Activin A has on the immune response makes it an important cytokine to study when looking at different diseases, such as allergy, autoimmunity, acute and chronic inflammation, and cancer (1,5).	
Endotoxin	Endotoxin levels are less than or equal to 1 EU / 1 µg h/m/r Activin A.	
Purity	A greater than or equal to 95% purity was determined by SDS-PAGE.	
Source / Purification	Recombinant human/mouse/rat Activin A was expressed in <i>E. coli</i> and is supplied in a lyophilized form.	
Bioactivity	The bioactivity of recombinant h/m/r Activin A was determined in an MPC-11 cell cytotoxicity assay. The ED ₅₀ of each lot is less than or equal to 10 ng/ml.	
Background References	<ol style="list-style-type: none"> 1. Morianos, I. et al. (2019) <i>J Autoimmun</i> 104, 102314. 2. Seeger, P. et al. (2014) <i>J Immunol</i> 192, 1241-8. 3. Samitas, K. et al. (2016) <i>Eur Respir J</i> 47, 769-82. 4. Sierra-Filardi, E. et al. (2011) <i>Blood</i> 117, 5092-101. 5. Hedger, M.P. et al. (2011) <i>Vitam Horm</i> 85, 255-97. 6. Sozzani, S. and Musso, T. (2011) <i>Blood</i> 117, 5013-5. 	

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