For Research Use Only Recombinant Rat IL-2 protein (His Tag)

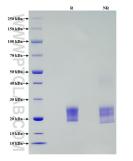


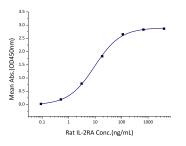
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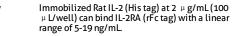
Catalog Number: Eg0260

Basic Information	<mark>Species:</mark> Rat	Purity: >95 %, SDS-PAGE	Tag: His Tag			
	EC50: 5-19 ng/mL		-			
Technical Specifications	Purity: >95 %, SDS-PAGE					
	Endotoxin Level: <0.1 EU/ μ g protein, LAL method					
	Source: HEK293-derived Rat IL-2 protein Met+Ala21-Gln155 (Accession#P17108) with a His tag at the C-terminus. GenelD: 116562 Accession: P17108 Predicted Molecular Mass: 19.4 kDa					
				SDS-PAGE: 19-26 kDa, reducing (R) conditions		
				Formulation: Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
				Biological Activity	Immobilized Rat IL-2 (His tag) at 2 µg/mL (100 µL/well) can bind Rat IL-2RA (rFc tag) with a linear range of 5- 19 ng/mL.	
	Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.				
		 Until expiry date, -20°C to -80°C as lyophilized proteins. 3 months, -20°C to -80°C under sterile conditions after reconstitution. 				
Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.						
Reconstitution	Briefly centrifuge the tu	pe before opening. Reconstitute at 0.1-0.5	s mg/mL in sterile water.			
Background	IL-2 (Interleukin-2) is an i white blood cells (leukoc 2 are activated CD4+ T ce which are expressed by l JAK/STAT, PI3K/Akt/mTOR by controlling the surviva immune tolerance. It also production.	nterleukin, a type of cytokine signaling m ytes, often lymphocytes) that are respons Ils and activated CD8+ T cells. IL-2 mediate ymphocytes. IL-2 signal can be transduced and MAPK/ERK pathway. IL-2 plays a role in al and proliferation of regulatory T-cells, w promotes proliferation of activated B cel	olecule in the immune system. It regulates sible for immunity. The major sources of IL- es its effects by binding to IL-2 receptors by 3 different signaling pathways: n regulating the adaptive immune system <i>y</i> hich are required for the maintenance of lls and subsequently immunoglobulin			
References	1.M C Mingari. et al. (1984). Nature. 312(5995): 641-3. 2.Thomas R Malek. et al. (2010). Immunity. 33(2): 153-65. 3.Wei Liao. et al. (2011). Curr Opin Immunol. 23(5): 598-604. 4.Natalia Arenas Ramirez. et al. (2015). Trends Immunol. 36(12): 763-777.					
Synonyms	ll2, IL-2, interleukin 2					

Selected Validation Data







Purity of Recombinant Rat IL-2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.