

IL2RA

Recombinant Human IL-2 Receptor subunit alpha, soluble

Catalog No.	CRI192B	Quantity:	25 µg
Alternate Names:	Interleukin-2 receptor subunit alpha, CD25		
Description:	<p>The IL-2 receptor system consists of three non-covalently linked subunits termed IL-2R alpha, IL-2R beta, and IL-2R gamma. The IL-2R alpha is a type I transmembrane protein consisting of a 219 amino acid extracellular domain, a 19 amino acid transmembrane domain and a 13 amino acid intracellular domain, which is not involved in the transduction of IL-2 signals. Proteolytic processing of IL-2R alpha releases the entire extracellular domain of IL-2R alpha thereby generating a 219 amino acid, soluble protein called soluble IL-2R alpha (sIL-2R alpha). The homodimeric form binds IL-2 (KD = 10 mM) and facilitates IL-2 signaling. The secreted sIL-2R alpha is expressed on leukemia cells, lymphoma cells, newly activated T and B-cells, as well as on approximately 10% of NK cells.</p>		
UniProt ID:	P01589		
Gene ID:	3559		
Source:	CHO cells		
Molecular Weight:	24.8 kDa (219 aa) predicted 31 kDa, apparent, due to glycosylation		
Formulation:	Lyophilized from PBS		
Purity:	> 98% by SDS-PAGE and HPLC analyses		
Endotoxin Level:	< 1 EU/µg		
Biological Activity:	ED ₅₀ typically 0.5 - 1.5 µg/ml, determined by its ability to increase the proliferation effect of IL-2 in mouse CTLL-2 cells, in the presence of 1 ng/ml of recombinant IL-2.		
Amino Acid Sequence:	<p>ELCDDDPPEI PHATFKAMAY KEGTMLNCEC KRGFRRIKSG SLYMLCTGNS SHSSWDNQCQ CTSSATRNTT KQVTPQPEEQ KERKTTEMQS PMQPVDQASL PGHCREPPPW ENEATERIYH FVVGQMVYYQ CVQGYRALHR GPAESVCKMT HGKTRWTQPQ LICTGEMETS QFPGEEKPQA SPEGRPESET SCLVTTTDFQ IQTEMAATME TSIFTTEYQ</p>		
Reconstitution:	<p>Centrifuge vial prior to opening. Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C.</p>		
Storage & Stability:	<p>Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.</p>		

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