

Store at
-20C
#12786**Human Interleukin-6 Receptor α (hIL-6Ra)**10 μ g
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MW (kDa):	UniProt ID:	Entrez-Gene Id:
38	#P08887	3570
Background	The IL-6 receptor is a heterodimeric complex that consists of a ligand-binding IL-6 receptor α (IL-6Ra) subunit and a signaling component, gp130 (1). Binding of IL-6 to IL-6Ra results in dimerization of receptor with gp130 and subsequent STAT3 activation (1). IL-6Ra is cleaved from the cell surface by ADAM17 (1,2). In humans, soluble IL-6Ra is also generated via alternatively spliced mRNA (1,3). Soluble IL-6Ra binds to IL-6 and can stimulate signaling via membrane bound gp130 in a process known as "trans-signaling" (1). It is through trans-signaling that IL-6 stimulates cells that do not express membrane bound IL-6Ra (1).	
Endotoxin	Less than 0.01 ng endotoxin/1 μ g hIL-6Ra.	
Purity	>90% as determined by SDS-PAGE of 6 μ g reduced (+) and nonreduced (-) recombinant hIL-6Ra. All lots are greater than 90% pure.	
Source / Purification	Recombinant Human Interleukin-6 Receptor α (hIL-6Ra) Leu20 - Asp358 (Accession #NP_000556) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The activity of hIL-6Ra was determined by assessing its ability to enhance IL-6 mediated inhibition of M1 cells proliferation. The ED ₅₀ of each lot is between 2 and 15 ng/ml.	
Background References	<ol style="list-style-type: none"> Rose-John, S. (2012) <i>Int J Biol Sci</i> 8, 1237-47. Müllberg, J. et al. (1993) <i>Eur J Immunol</i> 23, 473-80. Lust, J.A. et al. (1992) <i>Cytokine</i> 4, 96-100. 	

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