

Recombinant Rat Il6r, His-tagged

Cat. No. Il6r-935R Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the rat Il6r (Met1-Pro364) was expressed with a polyhistidine tag at the C-terminus.
Species	Rat
Source	Human Cells
ProteinLength	1-364 a.a.
Description	Interleukin 6 receptor (IL-6R) also known as CD126 (Cluster of Differentiation 126) is a type I cytokine receptor. The low concentration of a soluble form of IL-6 receptor (sIL-6R) acts as an agonist of IL-6 activity. In the IL-6R/CD126/IL6R system, both a membrane-bound IL-6R and a sIL-6R protein are able to mediate IL-6 signals into the cells through the interaction of gp130. The resulting IL-6/sIL-6R protein complex is also capable of binding to gp130 and inducing intracellular signalling. Through this so-called 'trans-signalling' mechanism, IL-6 is able to stimulate cells that lack an endogenous mL-6R. High levels of IL-6 and sIL-6R have been reported in several chronic inflammatory and autoimmune diseases as well as in cancer.
Predicted N Terminal	Leu 20
Form	Lyophilized from sterile PBS, pH 7.4.
Molecular Mass	The recombinant rat Il6r consists 356 amino acids and predicts a molecular mass of 39.5 kDa.

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Endotoxin	<1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	IL6r interleukin 6 receptor [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Il6r
Synonyms	IL6r; IL6R1; IL6ra; interleukin 6 receptor; interleukin-6 receptor subunit alpha; IL-6RA; IL-6R 1; IL-6R-alpha; IL-6R subunit alpha; IL-6 receptor subunit alpha; interleukin 6 receptor, alpha
Gene ID	24499
mRNA Refseq	NM_017020
Protein Refseq	NP_058716

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UniProt ID	P22273
Chromosome Location	2q34
Pathway	Cytokine Signaling in Immune system; HIF-1 signaling pathway; Hematopoietic cell lineage
Function	ciliary neurotrophic factor binding; contributes_to ciliary neurotrophic factor receptor activity; interleukin-6 binding

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