



## Recombinant Rabbit IL-6R alpha

Catalog Number: GR150020

### Background

Interleukin 6 receptor (IL6R) also known as CD126 (Cluster of Differentiation 126) is a type I cytokine receptor. Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. In melanocytic cells IL6R gene expression may be regulated by MITF.<sup>[1]</sup> The IL6 receptor is a protein complex consisting of a IL-6 receptor subunit (IL6R) and interleukin 6 signal transducer Glycoprotein 130. IL6R also denotes the human gene encoding this subunit. Alternatively spliced transcript variants encoding distinct isoforms have been reported.<sup>[2]</sup> IL6R subunit is also shared by many other cytokines. Interleukin-6 receptor has been shown to interact with Interleukin 6<sup>[2]</sup> <sup>[3]</sup> <sup>[4]</sup> and Ciliary neurotrophic factor.<sup>[3][5]</sup>

### Reference

1. Hoek KS, Schlegel NC, Eichhoff OM, *et al.* (2008). *Pigment Cell Melanoma Res.* **21** (6): 665–76.
2. Schwantner, Andreas *et al.* (2004) *J. Biol. Chem.* **279** (1): 571–6.
3. Schuster, Björn *et al.* (2003) *J. Biol. Chem.* **278** (11): 9528–35.
4. Taga, T *et al.* (1989) *Cell* **58** (3): 573–81.
5. Schooltink, H (1992) *FEBS Lett.* **314** (3): 280–4.



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### Description

Quantity: 5 µg

Sources: Expressed in *E. coli*.

Composition: Gly20-Val359

Accession #: E1BJQ3

Molecular weight: 36 kDa

Activity: Measured by its ability to enhance the IL-6 activity on M1 mouse myeloid leukemia cells. Saito T et al. (1991) J Immunol 147:168.

The ED50 for this effect is typically 10 ng/ml.

Endotoxin level: <1.0 EU per 1 µg of the protein by the LAL method.

Purity: > 98%, by SDS-PAGE under reducing conditions and visualized by silver staining.

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.

Reconstitution: reconstitute at 50 µg/ml in sterile PBS and store at -20°C ~ -70°C for up to 3 months.

Shipping and storage: The product is shipped at ambient temperature or with ice pad. Upon receipt, store it immediately at -20°C to avoid loss of activity and use it in 6 months.

### DECLARATION

THIS REAGENT IS FOR IN VITRO LABORATORY TESTING AND RESEARCH USE ONLY. DO NOT USE IT FOR CLINICAL DIAGNOSTICS. DO NOT USE OR INJECT IT IN HUMANS AND ANIMALS.

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