

Recombinant Canine IL-6R Protein Datasheet

Catalog Number: GR122145

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.^[1] 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.^[2] IL6R subunit is also shared by many other cytokines. Interleukin-6 receptor has been shown to interact with Interleukin 6^[2] ^[3] ^[4] and Ciliary neurotrophic factor.^[3]^[5]

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.

Related products

1. GR238016 50 ml Reagent Reservoir, 100/case, 5 packs/case (pack of 20)
2. GR238004 Tissue Culture 96-well Microplate, individually packed, Case of 50
3. GR238019 1.5 ml Microcentrifuge tube with screw cap and free-standing, pack of 500
4. GR238007 125 ml leak-resistant HDPE bottle, colorless, pack of 24
5. GR238002 Microplate 12x8-Well Strip High Binding, Case of 50
6. GR238003 Microplate 12x8-Well Strip Medium Binding, Case of 50
7. GR238032 42592 Costar Stripwell Microplate 1 x 8 Flat Bottom, High Binding, Case of 100
8. GR238001 468667 Thermo Microplate 12x8-Well Strip Nunc Maxisorp F8, Case of 60
9. GR238031 96-well microplate sealer plastic, pack of 100



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Description

Sources: Expressed in *E. coli*.

Composition: Val30-Ser360

Accession #: A0A8I3NUE0

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 8-15 ng/ml.

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

Purity: >95%, 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.

**FOR LABORATORY RESEARCH USE ONLY
NOT FOR USE IN HUMANS AND ANIMALS**