

# Recombinant Mouse IL6RA/CD126 protein (His tag)

Catalog Number: PDMM100024



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

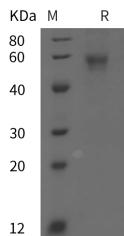
## Description

|                                    |                                 |
|------------------------------------|---------------------------------|
| <b>Synonyms</b>                    | Il6ra;CD126;IL-6R;Il6r;MGC30256 |
| <b>Species</b>                     | Mouse                           |
| <b>Expression Host</b>             | HEK293 Cells                    |
| <b>Sequence</b>                    | Met1-Glu357                     |
| <b>Accession</b>                   | P22272                          |
| <b>Calculated Molecular Weight</b> | 39.2 kDa                        |
| <b>Observed molecular weight</b>   | 58 kDa                          |
| <b>Tag</b>                         | C-His                           |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | Please contact us for more information.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.           |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

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 mIL-6R. High levels of IL-6 and sIL-6R have been reported in several chronic inflammatory and autoimmune diseases as well as in cancer.

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Fax: 1-832-243-6017