



Recombinant Protein Technical Manual

Recombinant Rat IL6RA/CD126 Protein (ECD, His Tag)(Active)
RPES3176

Product Data:

Product SKU: RPES3176

Size: 20µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: NP_058716.2

Protein Information:

Molecular Mass: 39.5 kDa

AP Molecular Mass:

Tag: C-His

Bio-activity: Measured by its ability to bind human IL6 in functional ELISA.

Purity: > 90 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg protein as determined by the LAL method.

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: Il6ra;IL-6R

Immunogen Information:

Sequence: Met1-Pro364

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.