

Recombinant Human IL6RA/CD126 Protein (His Tag)

Catalog Number: PKSH031632

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

Description

Species	Human
Source	HEK293 Cells-derived Human IL6RA/CD126 protein Met 1-Pro 365, with an C-terminal His
Calculated MW	40 kDa
Accession	NP_000556.1
Bio-activity	1. Immobilized recombinant human IL-6 at 8 µg/mL (100µl/well) can bind recombinant human IL6R with a linear range of 1. 25-20.0 ng/ml. 2. Measured by its ability to enhance the IL6 activity on M1 mouse myeloid leukemia cells. The ED ₅₀ for this effect is typically 20-80 ng/ml.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

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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