Data Sheet (Cat.No.TMPS-00128)

TargetMol

IL-6R alpha/CD126 Protein, Human, Recombinant (Insect, His)

General Information

Synonyms:	IL-6RA;IL-6R subunit alpha;gp80;IL-6R 1;Membrane glycoprotein 80;sIL6RA;CD_antigen: CD126;Interleukin-6 receptor subunit alpha
Protein Construction:	Leu20-Asp358
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	P08887-1
Molecular Weight:	~50 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 50.0 ng/ml, measured by the cytotoxicity assay using M1 cells in presence of 10.0 ng/ml of human IL-6, corresponding to a specific activity of > 2.0 × 10 4 units/mg.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/μg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-6 Receptor (IL-6R) is a single trans-membrane protein that is the receptor for Interleukin-6 (IL-6). IL-6R forms a hexameric complex upon binding 2 molecules of IL-6 and two molecules of glycoprotein 130 (gp130) which activates intracellular JAK/STAT pathways. Although the normal form of IL-6R is the membrane-bound 80 kDa subunit, a soluble form of IL-6R (sIL-6R) can be generated physiologically by limited proteolysis or alternative splicing. sIL-6R binds to both IL-6 and gp130 generating intracellular signaling. In the immune system, sIL-6R is produced by both naïve and memory CD4 T-cells and strongly augments IL-6 ligand's induction of Th-17 cells.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481