

Rev03
 Update: Dec,14,2021

DATASHEET

sIL-6R α , His, Human

Cat. No.: Z03213

Product Introduction

Species	Human
Protein Construction	Expressed with an N-terminal Met.
	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #4a7c9c; color: white; padding: 5px; margin-right: 10px;">Poly-His</div> <div style="background-color: #0070c0; color: white; padding: 5px; margin-right: 10px;">sIL-6Rα (Leu20-Asp358)</div> <div style="background-color: #0070c0; color: white; padding: 5px;">Accession # P08887-1</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
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 \times 10 ⁴ units/mg.
Expression System	Sf9 insect cells
Apparent Molecular Weight	~50 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O up to 100 μ g/ml.
Storage & Stability	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.

Background

Target 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.

Synonyms : Interleukin-6 receptor subunit alpha; IL-6R subunit alpha; IL-6RA; IL-6R 1; Membrane glycoprotein 80; gp80; CD_antigen: CD126; sIL6RA

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