

## Overview

<b>Synonyms</b>	gp80
<b>Description</b>	<p><b>Interleukin-6 Receptor (IL-6R)</b> 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.</p> <p><b>Recombinant human Soluble IL-6 Receptor Alpha (rhsIL-6R alpha)</b> with an N-terminal His tag produced in <i>Sf9 insect cells</i> is a single glycosylated polypeptide chain containing 350 amino acids. A fully biologically active molecule, rhsIL-6R alpha has a molecular mass of 50kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
<b>Accession No</b>	P08887
<b>Species</b>	Human
<b>Source</b>	<i>Sf9 insect cells</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 50ng/mL, measured by the cytotoxicity assay using M1 cells in presence of 10 ng/mL of human IL-6, corresponding to a specific activity of > 2×10 <sup>4</sup> units/mg.
<b>Sequence</b>	<pre> HHHHHHDDDD KLAPRRCPAQ EVARGVLTSL PGDSVTLTCL GVEPEDNATV HWVLRKPAAG SHPSRWAGMG RRLLLRSVQL HDSGNYSYCYR AGRPAGTVHL LVDVPPEEPQ LSCFRKSPLS NVVCEWGP RS TPSLTTKAVL LVRKFQNSPA EDFQEPCQYS QESQKFSCQL AVPEGDSSFY IVSMCVASSV GSKFSKTQTF QGCGILQPD P PANITVTAVA RNPRWLSVTW QDPHSWNSSF YRLRFELRYR AERSKTFTTW MVKDLQHHCV IHDAWSGLRH VVQLRAQEEF GQGEWSEWSP EAMGTPWTES RSPPAENEVS TPMQALTTNK DDDNILFRDS ANATSLPVQD </pre>

## Properties

<b>Measured Molecular Weight</b>	50 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analyses.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 µg/mL.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized <b>recombinant human Soluble IL-6 Receptor Alpha (rhsIL-6R alpha)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhsIL-6R alpha remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,  
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com)

Web: [www.lifetechindia.com](http://www.lifetechindia.com)