

Overview

Synonyms	soluble IL-2 receptor, TAC-antigen, CD25 antigen
Description	<p>Interleukin-2 receptor (IL-2R) is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to the cytokine IL-2. The IL-2R is made up of 3 subunits - alpha (α), beta (β) and gamma (γ). The α and β chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the γ-chain, along with the β subunit. The β and γ chains of the IL-2R are members of the type I cytokine receptor family. IL-2R has a high binding affinity to IL-2 and is expressed by antigen-activated T lymphocytes (T cells). IL-2 R\pm is also known as CD25, p55, and Tac (activated T cell) antigen.</p> <p>Recombinant Human Interleukin-2 Receptor \pm (IL-2 R \pm), His produced in <i>HEK 293</i> cells is a polypeptide chain containing 205 amino acids. A fully biologically active molecule, rhIL-2 R \pm has a molecular mass of 42 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P01589
Species	Human
Source	<i>HEK 293</i>
Biological Activity	Determined by its ability to increase the proliferation effect of IL-2 in murine CTLL-2 cells. In the presence of 1 ng/ml of recombinant IL-2, ED ₅₀ for this effect is < 1.5 μ g/ml.
Sequence	<pre> HHHHHHHHEL CDDDPPEIPH ATFKAMAYKE GTMLNCECKR GFRRIKSGSL YMLCTGNSSH SSWDNQCQCT SSATRNTTKQ VTPQPEEQKE RKTTEMQSPM QPVDQASLPG HCREPPPWEN EATERIYHFV VGQMVYYQCV QGYRALHRGP AESVCKMTHG KTRWTQPQLI CTGEMETSQF PGEEKPQASP EGRPESETSC </pre>

Properties

Measured Molecular Weight	42 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Endotoxin Level	< 0.2 EU/ μ g, determined by LAL method.
Storage	Lyophilized recombinant Human Interleukin-2 Receptor \pm remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Interleukin-2 Receptor \pm should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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