

## 32-20613: Recombinant Human sIL-2 Receptor Alpha (Insect derived)(Discontinued)

**Reactivity :** Human, Mouse

**Alternative Name :** soluble IL-2 receptor, TAC-antigen, CD25 antigen

### Description

#### Source:(BTI-Tn-5B1-4) Hi-5 Insect cells

The IL-2 receptor system consists of three non-covalently linked subunits termed IL-2RAlpha , IL-2RBeta , and IL-2RGamma. The IL-2RAlpha is a type I transmembrane protein consisting of a 219 amino acid extracellular domain, a 19 amino acid transmembrane domain and a 13 amino acid intracellular domain, which is not involved in the transduction of IL-2 signals. Proteolytic processing of IL-2RAlpha releases the entire extracellular domain of IL-2RAlpha , thereby generating a 219 amino acid soluble protein called soluble IL-2RAlpha (sIL-2RAlpha ). The homodimeric form binds IL-2 (KD=10mM) and facilitates IL-2 signaling. The secreted sIL-2RAlpha is expressed on leukemia cells, lymphoma cells, and newly activated T and B cells, as well as on approximately 10% of NK cells. Recombinant Human sIL-2RAlpha is a 24.8 kDa protein containing 219 amino acid residues consisting of only the extracellular domain of IL-2RAlpha . Due to glycosylation, IL-2RAlpha has an approximate molecular weight of 31 kDa based on SDS-PAGE gel and Mass Spectrometry.

### Product Info

**Amount :** 5 µg / 25 µg

**Purification :** Purity:>= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** ELCDDDPPEI PHATFKAMAY KEGTMLNCEC KRGFRRIKSG SLYMLCTGNS SHSSWDNQCQ CTSSATRNNT  
KQVTPQPTEE KERTTEMQS PMQPVDQASL PGHCREPPPW ENEATERIYH FVVGQMVYYQ  
CVQGYRALHR GPAESVCKMT HGKTRWTQPQ LICTGEMETS QFPGEEKPQA SPEGRPESET SCLVTTTDFQ  
IQTEMAATME TSIFTTEYQ

### Application Note

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, the expected ED<sub>50</sub> for this effect is between 0.5 - 1.5 µg/ml.