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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.Â 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.Â 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).Â The homodimeric form binds IL-2 (KD=10mM) and facilitates IL-2 signaling.Â 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.Â 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 CTSSATRNTT KQVTPQPEEQ KERKTTEMQS 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 expectedÃ Â ED_{50}Ã Â for this effect is between 0.5 - 1.5 Ã Âµg/ml.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.