

Product Information

Transforming Growth Factor- β 1

Soluble Receptor II

Human, Recombinant

Expressed in NSO myeloma cells

Product Number **T 3301**

Product Description

The mammalian homodimeric isoforms TGF- β 1, TGF- β 2, and TGF- β 3 bind with high affinity to a set of cell surface proteins that include the type I receptor, the type II receptor, and betaglycan.¹ The type II receptor has a molecular weight of 70 kDa. The Recombinant, Human TGF- β 1 Soluble Receptor II is produced by a DNA sequence encoding the 159 amino acid residue extracellular domain of human TGF- β 1 receptor type II.² Recombinant, Human TGF- β 1 Soluble Receptor II contains 136 amino acid residues and is generated after cleavage of the 23 amino acid signal peptide. Recombinant, Human TGF- β 1 Soluble Receptor II will bind to TGF- β 1, - β 2, - β 3, and - β 5.

Reagents

Lyophilized from a 0.2 μ m-filtered solution of phosphate buffered saline, pH 7.4 containing 1.25 mg bovine serum albumin (BSA) as a carrier protein.

Reconstitution

Reconstitute the contents of the vial using 0.2 μ m-filtered PBS containing 0.1% HSA or BSA to a concentration not less than 50 μ g/ml.

Storage/Stability

Store at -20 °C for no more than 6 months.

After reconstitution, this cytokine may be stored at 2-8 °C for one month. For extended storage, freeze in working aliquots at -70 °C or -20 °C for three months. Repeated freezing and thawing is not recommended.

Product Profile

The biological activity of Recombinant, Human TGF- β 1 Soluble Receptor II is measured by its ability to inhibit the TGF- β 1 activity on the mouse T cell line, HT-2.³ The EC₅₀ is defined as the effective concentration of soluble receptor that elicits a 50% inhibition of TGF β 1 activity in a cell based bioassay.

References

1. Laiho, M., et al., *Journal of Biol. Chem.*, **266**, 14, 9108 (1991).
2. Lin, H., et al., *Cell*, **68**, 775 (1992).
3. Tsang, M., et al., *Lymphokine Res.*, **9**, 607 (1990).

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