

Recombinant Human Transforming Growth Factor-beta 2 (rh TGF beta 2)

Synonyms: cetermin, Glioblastoma-derived T-cell suppressor factor (G-TSF), BSC-1 cell growth inhibitor

Introduction: TGFB2 is a 27.08 kDa protein having two identical 118 amino acid peptide chains linked by a single disulfide bond. TGFB2 is part of a family of five related cytokines that have an extensive variation of normal and neoplastic cells, indicating the importance of these homo-dimer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF- β (TGFb1, TGFb2 and TGFb3) signal through the same receptor and stimulate similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.

Description: Recombinant human TGF beta 2 produced in plants is a homodimeric polypeptide chain containing 2 x 118 amino acids and having a total molecular mass of 27.08 kDa. The TGF-beta 2 is fused to 6x His Tag at N-terminus and purified by proprietary chromatographic techniques.

Source: *Nicotiana benthamiana*

Physical Appearance: Sterile filtered lyophilized powder.

Formulation: Lyophilized from a concentrated solution containing 50mM Tris-HCL, pH 7.4.

Solubility: It is recommended to reconstitute lyophilized TGF-beta 2 in sterile H₂O not less than 1 μ g/40 μ l which can then be further diluted to other aqueous solutions.

Stability: Lyophilized TGF beta 2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGF beta 2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 97.0% by SDS-page

Amino acid sequence:

HHHHHHALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIH
EPKGYNANFCAGACPYLWSSDTQHSRVLSTYNTINPEASAS PCCVSQDLEPLTI
LYYIGKTPKIEQLSNMIVKSKCS

Biological Activity: Measured in culture by its ability to inhibit the mink lung epithelial (Mv1Lu) cells proliferation the ED50 is < 40ng/ml, corresponding to a specific activity of 25,000 units/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	1 μ g	Cat.N°	11344751
<i>medium</i>	5 μ g	Cat.N°	11344750

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