

Transforming Growth Factor Beta 2 Human Recombinant

Item Number	rAP-2476
Synonyms	Transforming growth factor, beta 2, cetermin, Glioblastoma-derived T-cell suppressor factor, polyergin, G-TSF, TGF-beta2, TGF-beta-2, transforming growth factor beta-2, BSC-1 cell growth inhibitor, TGFB-2.
Description	TGFB2 Human Recombinant produced in plants is a homodimeric polypeptide chain containing 2 x 118 amino acids and having a total molecular mass of 27.08kDa. The TGFB2 is fused to 6xHis Tag at N-terminus and purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P61812
Amino Acid Sequence	HHHHHHALDAAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWS-SDTQHRSRVLSTYNTINPEASASPCCVSQDLEPLTI LYYIGKTPKIEQLSNMIVKSCCKCS.
Source	Nicotiana benthamiana.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized TGFB2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGFB2 Human 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.
Formulation and Purity	Lyophilized from a concentrated (1mg/ml) solution containing 50mM Tris-HCl pH-7.4. Greater than 97.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized TGFB2 in sterile 18M-cm H2O not less than 1µg/40µl, which can then be further diluted to other aqueous solutions.
Biological Activity	The biological activity of TGFB2 is measured in culture by its ability to inhibit the mink lung epithelial (Mv1Lu) cells proliferation. ED50 < 40ng/ml, corresponding to a specific activity of 25,000 units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**