TGFB2
Recombinant Human Transforming Growth Factor-Beta 2 His

Catalog No.	CS429A	**Quantity:**	1 µg
	CS429B		5 µg
	CS429C		100 µg

Alternate Names: 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 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-dimmer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF-beta (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.
TGFB2 Human Recombinant produced in plants is a homodimeric polypeptide chain containing 2 x 118 amino acids and having a total molecular mass of 27.08 kDa. The TGFB2 is fused to 6 x His Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Gene ID: 7042

Protein Accession No: P61812

Source: *Nicotiana benthamiana.*

MolecularMass: 27.08 kDa

Formulation: Lyophilized from a concentrated (1mg/ml) solution containing 50 mM Tris-HCl, pH-7.4.

Purity: Greater than 97.0% as determined by SDS-PAGE.

Biological Activity: The biological activity of TGFB2 is measured in culture by its ability to inhibit the mink lung epithelial (Mv1Lu) cells proliferation. ED50 < 40 ng/ml.

Specific Activity: 5,000 units/mg.

Amino Acid Sequence: **HHHHHH**ALDA AYCFRNVQDN CCLRPLYIDF KRDLGWKWIH EPKGYNANFC AGACPYLWSS DTQHSRVLSL YNTINPEASA SPCCVSQDLE PLTILYYIGK TPKIEQLSNM IVKSCKCS.

Reconstitution: It is recommended to reconstitute the lyophilized TGFB2 in sterile 18 M-cm H_2O not less than 1µg/40 µl, which can then be further diluted to other aqueous solutions. **Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.**

Storage & Stability: 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. **Please prevent freeze-thaw cycles.**

Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com