9051 Mira Mesa Blvd, #910094
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TGFB2 Human

Transforming Growth Factor Beta 2 Human Recombinant
GRF0391

Product Overview

Name	TGFB2 Human
Description	
Transforming Growth Factor Beta 2 Human Recombinant	
Accession (Primary)	P61812
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.	
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-dimmer 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.	
Source	
Nicotiana benthamiana.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a concentrated (1mg/ml) solution containing 50mM Tris-HCl pH-7.4.	
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 (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 97.0% as determined by SDS-PAGE.	
Amino acid sequence	
HHHHHH ALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIH	

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EPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASAS PCCVSQDLEPLTI LYYIGKTPKIEQLSNMIVKSCKCS.

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.

Solubility

It is recommended to reconstitute the lyophilized TGFB2 in sterile 18M-cm H 2 O not less than 1 µg/40 µl, which can then be further diluted to other aqueous solutions.

Precautions

TGFB2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P61812)