
Product Data Sheet

Product Name: TGFB2 Human, HEK
 Cat. No.: GP20950
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Solubility	It is recommended to reconstitute the lyophilized TGF-b 2 in sterile solution containing 20% ethanol, 50mM sodium acetate and 75mM acetic acid.		
Formulation	TGF-b 2 was lyophilized from a 0.2µm filtered solution containing 50mM sodium acetate pH 4.5.		

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-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.

Biological Activity

The specific activity was determined by the dose-dependent inhibition of IL-4 induced proliferation of mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2), the ED50 is 0.16ng/ml.

Stability

Lyophilized TGF-b 2 although stable at room temperature for 3 weeks, should be stored

Caution: Product has not been fully validated for medical applications. For research use only.

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desiccated below -18°C . Upon reconstitution TGF-b 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.

Background

TGF-b 2 Human Recombinant produced in HEK cells is a non-glycosylated homodimer, having a total molecular weight of 25kDa. The TGF-b 2 is purified by proprietary chromatographic techniques.

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