

Overview

Synonyms	Transforming growth factor beta-2, TGFB2, Polyergin, G-TSF, Glioblastoma-derived T-cell suppressor factor, Cetermin, BSC-1 cell growth inhibitor, TGF-beta-2
Description	<p>Transforming growth factor beta-2 (TGF-^β2) is a secreted protein which belongs to the TGF-beta family. It is known as a cytokine that performs many cellular functions and has a vital role during embryonic development. The precursor is cleaved into mature TGF-beta-2 and LAP, which remains non-covalently linked to mature TGF-beta-2 rendering it inactive. It is an extracellular glycosylated protein. It is known to suppress the effects of interleukin dependent T-cell tumors. Defects in TGFB2 may be a cause of non-syndromic aortic disease (NSAD).</p> <p>Recombinant human TGF-^β2 produced by a mammalian expression system is a polypeptide chain containing 112 amino acids. A fully biologically active molecule; rh TGF-^β2 a molecular mass of 12.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Source	Human Cells
Biological Activity	ED50 <0.2 ng/ml, measured in a cell proliferation assay using mouse HT-2 cells.
Sequence	<p>Ala³⁰³-Ser⁴¹⁴ (Accession #: P61812); ALDAAYCFRNVQDNCCLRPLYIDFKRDLGKWIH EPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTI NPEASASPCCVSQDLEPLTILYYIGKTPKIEQLS NMIVKSKCS</p>

Properties

Measured Molecular Weight	12.7 kDa; observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized from a 0.2 μm filtered solution of 4 mM HCl.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/ml.
Endotoxin Level	< 1 EU/μg; determined by LAL method.
Storage	Lyophilized recombinant TGF- ^β 2, human remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution; Human TGF- ^β 2 should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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