

Overview

Synonyms	TGFB2; BSC-1 cell growth inhibitor; Cetermin; Glioblastoma-derived T-cell suppressor factor; G-TSF; MGC116892; Polygerin; TGF-beta2; TGF-beta-2; transforming growth factor beta-2
Description	<p>Transforming growth factor beta 2 (TGF-² 2) is a member of TGF-beta superfamily that shares a characteristic cysteine knot structure. Mice with TGF-² 2 gene deletion show defects in development of cardiac, lung, craniofacial, limb, spinal column, eye, inner ear and urogenital systems. All TGF-² isoforms signal via the same heteromeric receptor complex, consisting of a ligand binding TGF-² receptor type II (T² R-II), and a TGF-² receptor type I (T² R-I). Signal transduction from the receptor to the nucleus is mediated via SMADs. TGF-² expression is found in cartilage, bone, teeth, muscle, heart, blood vessels, hematopoietic cells, lung, kidney, gut, liver, eye, ear, skin, and the nervous system.</p> <p>Recombinant Mouse TGF-² 2 produced by a mammalian expression system is a polypeptide chain containing 112 amino acids. A fully biologically active molecule; rm TGF-² 2 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 #: P27090); ALDAAYCFRNVQDNCCLRPLYIDFKRDLGKWIH EPKGYNANFCAGACPYLWSSDTQHTKVLSLY NT INPEASASPCCVSDLEPLTILYYIGNTPKIEQL SNMIVKSKCS</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 in 4 mM HCl.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 1 EU/µg; determined by LAL method.
Storage	Lyophilized recombinant TGF- ² 2, Mouse remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution; Mouse TGF- ² 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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