

Overview

Synonyms	TGF-beta-1; CED; DPD1; TGFB; TGF-b1; TGFB1; CEDLAP; latency-associated peptide; TGFbeta; TGF-beta 1 protein; transforming growth factor beta-1
Description	<p>Transforming growth factor beta 1 (TGF² 1) is the prototype of a growing superfamily of peptide growth factors and plays a prominent role in a variety of cellular processes, including cell-cycle progression, cell differentiation, reproductive function, development, motility, adhesion, neuronal growth, bone morphogenesis, wound healing, and immune surveillance. TGF-² 1, TGF-² 2 and TGF-² 3 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 1 produced by a mammalian expression system is a polypeptide chain containing 112 amino acids. A fully biologically active molecule; rm TGF-² 1 a molecular mass of 12.8 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>Ala²⁷⁹-Ser³⁹⁰ (Accession #:P04202); ALDTNYCFSSSTEKNCCVRQLYIDFRKDLGKWIH EPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQH NPGASASPCCVPQALEPLPIVYYVGRKPKVEQLS NMIVRSCKCS</p>

Properties

Measured Molecular Weight	12.8 kDa; observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized from a 0.2 µm filtered solution in 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- ² 1, Mouse remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution; Mouse TGF- ² 1 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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