

Recombinant Mouse/Rat TGF-beta 1

Catalog #	EPT223
Expression Host	Human Cells
DESCRIPTION	Recombinant Mouse/Rat Transforming Growth Factor
	Beta 1 is produced by our Mammalian expression
	system and the target gene encoding Ala279-Ser390 is
	expressed.
Accession	P04202
Synonyms	TGF-beta-1; TGFB; TGF-b1; TGFB1;
	CEDLAP;latency-associated peptide; TGFbeta;
	TGF-beta 1 protein; transforming growth factor beta-1
Mol Mass	12.8 KDa
AP Mol Mass	13 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.001 ng/ μ g (0.01 EU/ μ g) as determined by
	LAL test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of 4mM
	HCI.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in 4mM HCl. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. SHIPPING The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. **STORAGE** Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}$ C for 3 months. BACKGROUND Transforming growth factor beta 1 (TGF β 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, differentiation, cell reproductive function,



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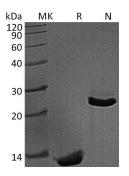
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development, motility, adhesion, neuronal growth,

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bone morphogenesis, wound healing, and immune surveillance. TGF-β1, TGF-β2 and TGF-β3 signal via the same heteromeric receptor complex, consisting of a ligand binding TGF- β receptor type II (T β R-II), and a TGF- β receptor type I (T β R-I). Signal transduction from the receptor to the nucleus is mediated via SMADs. TGF- β expression is found in cartilage, bone, teeth, muscle, heart, blood vessels, haematopoitic cells, lung, kidney, gut, liver, eye, ear, skin, and the nervous system.



SDS-PAGE



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