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Human Transforming Growth Factor β 3 (hTGF- β 3)



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MW (kDa): 12	UniProt ID: #P10600	Entrez-Gene Id: 7043
Background		TGF- β 3 can induce cell proliferation and angiogenesis, and can promote some immune events while inhibiting others (1-3). TGF- β 3 is produced by chondrocytes, glial cells, astrocytes and some cancer cells (3,4). TGF- β 3 binds to T β RII homodimer, which then complexes with T β RI homodimer (1,5). The oligomeric receptor complex phosphorylates subsets of SMAD proteins that then act to induce or suppress target genes (1,5). Based on knock-out studies in mice, TGF- β 3 is critical for lung and palate development (6).
Endotoxin		Less than 0.01 ng endotoxin/1 μg hTGF-β3.
Purity		>98% as determined by SDS-PAGE of 6 μ g reduced (+) and non-reduced (-) recombinant hTGF- β 3. Less than 5% migrates as monomer hTGF- β 3 under non-reduced (-) conditions. All lots are greater than 98% pure.
Source / Purification	on	Recombinant human TGF- β 3 (hTGF- β 3) Ala301-Ser412 (Accession #NP_003230) was expressed in human 293 cells at Cell Signaling Technology.
Bioactivity		The bioactivity of recombinant hTGF- β 3 was determined by assessing inhibition of IL-4 induced HT-2 cell proliferation. The ED ₅₀ of each lot is between 0.02-0.1 ng/ml.
Background Refere	ences	1. Siegel, P.M. and Massagué, J. (2003) <i>Nat Rev Cancer</i> 3, 807-21. 2. Bierie, B. and Moses, H.L. (2006) <i>Nat Rev Cancer</i> 6, 506-20. 3. Damstrup, L. et al. (1993) <i>Br J Cancer</i> 67, 1015-21. 4. Constam, D.B. et al. (1992) <i>J Immunol</i> 148, 1404-10. 5. Moustakas, A. and Heldin, C.H. (2009) <i>Development</i> 136, 3699-714. 6. Dünker, N. and Krieglstein, K. (2000) <i>Eur J Biochem</i> 267, 6982-8.

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