e at -20C	Human/Mouse TGF-β3 Recombinant Protein				<b>Cell Signaling</b> тесн N о L о д Y*	
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com
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MW (kDa).		UniProt ID.	Entrez-Gene Id			
	25.8	#P10600	7043			
Background		TGF- $\beta$ 3 can induce cell proliferation and angiogenesis, and can promote some immune events while inhibiting others (1-3). TGF- $\beta$ 3 is produced by chondrocytes, glial cells, astrocytes, and some cancer cells (3,4). TGF- $\beta$ 3 binds to T $\beta$ RII homodimer, which then complexes with T $\beta$ 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 knockout studies in mice, TGF- $\beta$ 3 is critical for lung and palate development (6).				
Endotoxin		Endotoxin levels are less than or equal to 1 EU / 1 $\mu$ g h/mTGF- $\beta$ .				
Purity		A greater than or equal to 95% purity was determined by SDS-PAGE.				
Source / Purification		Recombinant human/mouse TGF- $\beta$ 3 was expressed in <i>E. coli</i> and is supplied in a lyophilized form.				
Bioactivity		The bioactivity of recombinant h/mTGF- $\beta$ 3 was determined in an IL-4 induced HT-2 cell proliferation assay. The ED <sub>50</sub> of each lot is less than or equal to 0.038 ng/mL.				
Background		TGF- $\beta$ 3 can induce cell proliferation and angiogenesis, and can promote some immune events while inhibiting others (1-3). TGF- $\beta$ 3 is produced by chondrocytes, glial cells, astrocytes, and some cancer cells (3,4). TGF- $\beta$ 3 binds to T $\beta$ RII homodimer, which then complexes with T $\beta$ 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 knockout studies in mice, TGF- $\beta$ 3 is critical for lung and palate development (6).				
Background References		<ol> <li>Siegel, P.M. and Massagué, J. (2003) <i>Nat Rev Cancer</i> 3, 807-21.</li> <li>Bierie, B. and Moses, H.L. (2006) <i>Nat Rev Cancer</i> 6, 506-20.</li> <li>Damstrup, L. et al. (1993) <i>Br J Cancer</i> 67, 1015-21.</li> <li>Constam, D.B. et al. (1992) <i>J Immunol</i> 148, 1404-10.</li> <li>Moustakas, A. and Heldin, C.H. (2009) <i>Development</i> 136, 3699-714.</li> <li>Dünker, N. and Krieglstein, K. (2000) <i>Eur J Biochem</i> 267, 6982-8.</li> </ol>				
Cross-Reactivity Key		<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
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