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TGFB1
Recombinant Human Transforming Growth Factor-beta 1

Catalog No.	CS327A	**Quantity:**	5 µg
	CS327B		20 µg
	CS327C		1.0 mg
	CS327D		100 µg

Alternate Names: Precursor of Latency-asoociated protein (LAP), TGFB1, TGFbeta

Description: Transforming Growth Factor-beta 1 (TGF-beta1) is a member of the TGF-beta superfamily. Members of this family are known to exhibit regulatory activity in immunity and proliferation pathways. TGF-beta1 signals through SMAD proteins via the TGF-beta1 RI and RII receptors. Mature human TGF-beta1 is a glycosylated homodimer.

Gene ID: 7040

UniProt ID: P01137

Source: CHO cell line

Molecular Weight: 12.8/25.6 kDa (112/224 aa) dimer

Formulation: Lyophilized from a sterile buffer containing 0.1% trifluoroacetic acid (TFA) and trehalose in a 20:1 trehalose to protein ratio.

Purity: ≥ 95% by Reducing and Non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/µg protein, determined by kinetic LAL.

Biological Activity: ≤ 500 pg/ml, determined by the dose-dependent inhibition of IL-4-induced HT-2 cell proliferation.

Specific Activity: ≥ 2.0×10^6 U/mg
Calibrated against recombinant human TGF-beta 1 Reference Standard NIBSC code: 89/514, rhTGF-beta1 = 2.2×10^4 RU/mg

Amino Acid Sequence: ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS

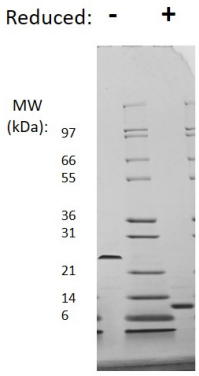
Reconstitution: Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile **10 mM HCl** at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions containing 0.1% BSA.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

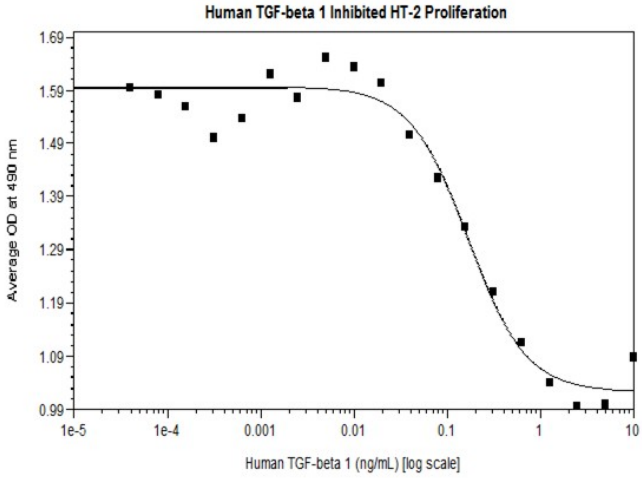
Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.



Human TGF-beta 1 Gel
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human TGF-beta 1 is a homodimer with a total predicted MW of 25.6 kDa (each monomer is 12.8 kDa).



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65 Parker Street
Unit 11
Newburyport, MA 01950

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Website: www.cellsciences.com