

# Recombinant Human Transforming Growth Factor – beta 2 (rHuTGF-β2)

## PrimeGene Technical Data Sheet

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<b>Catalog Number:</b>	105-42
<b>Source:</b>	<i>Mouse myeloma cell line, NS0</i>
<b>Molecular Weight:</b>	Apparent molecular mass of 24 kDa in SDS-PAGE under non-reducing conditions, 12 kDa under reducing conditions, a disulfide-linked homodimer of two 112 amino acid glycosylated polypeptide chains.
<b>Quantity:</b>	5μg/100μg
<b>AA Sequence:</b>	Ala303-Ser414; Accession # P61812
<b>Purity:</b>	> 97 % by SDS-PAGE analyses.
<b>Biological Activity:</b>	Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED <sub>50</sub> for this effect is 0.025-0.25 ng/mL.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from 0.2 μm filtered concentrated solution in 35 % Acetonitrile and 0.1 % TFA.
<b>Endotoxin:</b>	Less than 0.1 EU/μg of rHuTGF-β2 as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile 4 mM HCl to a concentration of 0.1 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriately buffered solutions.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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### ***Human Transforming Growth Factor – beta 2***

TGF-β2 is a pleiotropic cytokine that regulates immune function, cellular proliferation, and epithelial-mesenchymal transition. It shows cross-species activity in the development of cardiac, lung, craniofacial, limb, eye, ear, and urogenital systems. Latent TGF-β is activated by proteolytic cleavage of the mature cytokine from the latency-associated peptide. TGF-β2 signaling involves the accessory receptor Betaglycan, TGF-β RII, and a type I TGF-β receptor, resulting in the activation of Smad signal transduction.