

Recombinant Human Transforming Growth

Factor – beta 2 (rHuTGF-β2)

ChemWhat Technical Data Sheet (TDS)

Catalog Number: 105-42

Source: Mouse myeloma cell line, NS0

Molecular Weight: 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.

Quantity: 5µg/100µg

AA Sequence: Ala303-Ser414; Accession # P61812
Purity: > 97 % by SDS-PAGE analyses.

Biological Activity: Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED₅₀

for this effect is 0.025-0.25 ng/mL.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from 0.2 µm filtered concentrated solution in 35 % Acetonitrile and 0.1 % TFA.

Endotoxin: Less than 0.1 EU/μg of rHuTGF-β2 as determined by LAL method.

Reconstitution: 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 \leq -20 °C. Further dilutions should be made in

appropriately buffered solutions.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

■ 12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

• 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage: ChemWhat Limited in UK offers this branded product for research, development or further

evaluation purposes. NOT FOR HUMAN USE.

Human Transforming Growth Factor - beta 2

TGF- β 2 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- β 2 signaling involves the accessory receptor Betaglycan, TGF- β RII, and a type I TGF- β receptor, resulting in the activation of Smad signal transduction.

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