

Recombinant Human Transforming Growth Factor - beta 2

#R00148

Size: 5 µg/100 µg

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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

Ala303-Ser414;Accession#P61812

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 ≤ -20 °C. Further dilutions should be made in appropriately buffered solutions.

Product Specification

Species	Human
Source	NS0 Cells
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.
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 ED ₅₀ 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.
