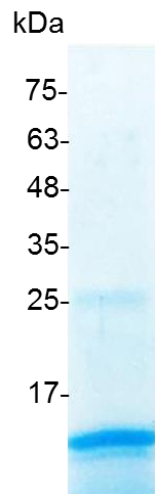


TGF beta 2 (Transforming growth factor beta 2), Human

v. 231001

| | |
|--------------------------------|---|
| Catalog number | C01089-5UG / C01089-20UG / C01089-100UG |
| Package | 5 µg / 20 µg / 100 µg |
| Description | TGF-β2 is a secreted protein known as a cytokine that performs many cellular functions and has a vital role during embryonic development. TGF-β2 signaling begins with binding to a complex of the accessory receptor betaglycan and a type II ser/thr kinase receptor termed TGF-beta RII. This receptor then phosphorylates and activates another ser/thr kinase receptor, TGF-beta RI, or alternatively, ALK-1. The whole complex phosphorylates and activates Smad proteins that regulate transcription (3, 11, 12). Use of other signaling pathways that are Smad-independent allows for disparate actions observed in response to TGF-beta in different contexts. |
| Source | <i>Escherichia coli</i> |
| Sequence | MALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHRSRVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVK SCKCS with polyhistidine tag at the C-terminus |
| Endotoxin level | <0.01 EU per 1 µg of the protein by the LAL method. |
| Activity | Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED ₅₀ for this effect is <0.2 ng/mL. The specific activity of recombinant human TGF beta 2 is > 5 x 10 ⁶ IU/mg. |
| Purity | >98% as determined by SDS-PAGE. |
| Form | Lyophilized |
| Storage Buffer | Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5. |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. In some experiments, it recommends to add 10 mM HCl when reconstitute lyophilized protein. |
| Stability & Storage | This product is stable after storage at: <ul style="list-style-type: none"> -20°C for 12 months in lyophilized state from date of receipt. -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles. |



SDS-PAGE analysis of recombinant human TGF beta 2

For research use only.