

**RMCH089**

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



5ug;20ug;100ug;500ug;

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**Synonym/Alternative name(s) :** G-TSF, LDS4, TGFB2

**Activity:**

Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells.

The ED50 for this effect is <0.2 ng/mL.

The specific activity of recombinant human TGF beta 2 is > 5 x 10<sup>6</sup> IU/mg.

**Protein 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.

**Protein Accession :** P61812.1

**Gene ID :** 7042

**Expression Sequence:**

MALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASAPCCVSQDLEPLTI  
LYYIGKTPKIEQLSNMIVKSKCS with polyhistidine tag at the C-terminus.

**Fusion tag :** His-tag?at?the?C-terminus

**Species :** Human

**Reactivity :** Human

**Expression Host :** Escherichia coli

**Source :** E. coli

**Purity/method:**

>98% as determined by SDS-PAGE. Ni-NTA chromatography

**Endotoxin level:**

<0.01 EU per 1 µg of the protein by the LAL method.

**Calculated Molecular Weight :** 13.66 kDa

**Formulation:**

The protein was lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.

**Reconstitution:**

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 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.

**Shipping :** Blue Ice

**Stability and Storage:**

Lyophilized protein should be stored at -20°C for 1 year.

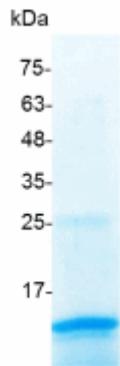
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

**Category :** Cytokines

**Application :** Cell culture, Elisa

**Image:**



SDS- PAGE analysis of recombinant human TGF beta 2