

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 10⁶ 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:

MALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASAPCCVSDLEPLTI
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 H₂O 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.

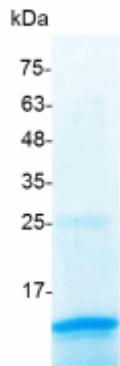
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

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