

RMGH088

Recombinant TGF beta 1, Human, GMP

 100ug;

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Synonym/Alternative name(s):

Differentiation inhibiting factor, Cartilage-inducing factor, CED, DPD1, IBDIMDE, LAP, TGFB

Activity:

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

The ED50 for this effect is <0.1 ng/mL.

The specific activity of recombinant human TGF beat 1 is approximately >5 x 10⁷ IU/mg.

Measure by its ability to induce proliferation in MCF-7 cells.

The ED50 for this effect is <3.2 ng/mL.

Protein Description:

The transforming growth factor beta (TGF beta) family of cytokines are ubiquitous, multifunctional, and essential to survival. They play the central roles in growth, development, inflammation, repair, and host immunity. The mammalian TGF beta isoforms (TGF beta 1, beta 2 and beta 3) are secreted as potential precursors and possess a variety of cell surface receptors and produces at least two mediate signal transductions.

Protein Accession : P01137.2**Gene ID :** 7040**Expression Sequence:**

MALDTNYCFSSTEKNCCVRLQYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNPGASAAPCCVPQALEPLPI VYYVGRKPKVEQLSNMIVRSCKCS 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:

<0.1 EU per 1 µg of the protein by the LAL method.

Calculated Molecular Weight : 13.7 kDa**Formulation:**

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

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.

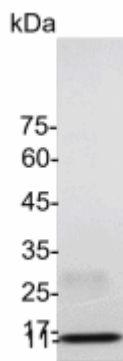
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

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 GMP human TGF beta

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