

Recombinant Human Transforming Growth Factor-beta 1 (rh TGF beta 1)

Synonyms: CED, DPD1, LAP.

Introduction: Transforming growth factor betas (TGFBetas) mediate many cell-cell interactions that occur during embryonic development. Three TGFBetas have been identified in mammals. TGFBeta1, TGFBeta2 and TGFBeta3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecule.

Description: TGFB1 Human Recombinant produced in CHO cells is a glycosylated homodimeric polypeptide chain containing 2 x 112 amino acids and having a total molecular mass of 25.6kDa. The TGFB1 is purified by proprietary chromatographic techniques.

Source: CHO cells.

Physical Appearance: Sterile filtered white (freeze dried lyophilized powder).

Formulation: Lyophilized from a sterile filtered solution containing 0.1 % trifluoroacetic acid (TFA) and trehalose (1:20 protein to Trehalose ratio).

Solubility: It is recommended to reconstitute the lyophilized TGFB1 in sterile 10mM HCL at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized TGF beta 1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TGF beta 1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% by SDS-page

Amino acid sequence: ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS.

Biological Activity: The ED50 as determined by the dose-dependent inhibition of IL-4-induced proliferation of HT-2 cells is 0.0142ng/ml, corresponding to a specific activity of $7,4 \times 10^6$ units/mg.

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| <i>small</i> | 1 µg | Cat.N° | 11343161 |
| <i>medium</i> | 5 µg | Cat.N° | 11343160 |

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