

## 32-1765: TGF beta 1 Native Protein

**Alternative Name :** Transforming growth factor beta-1,TGF-beta-1,CED,DPD1,TGFB,TGF-b 1.

### Description

Source : Human Platelets. Human Transforming Growth Factor-beta 1 purified from Human Platelets having a molecular mass of 25kDa.The TGF-b 1 is purified by proprietary chromatographic techniques. Transforming growth factor betas (TGF Betas) 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.

### Product Info

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|----------------------------|---|
| <b>Amount :</b>            | 2.5 µg  |
| <b>Purification :</b>      | Greater than 98.0% as determined by SDS-PAGE.   |
| <b>Content :</b>           | TGF-Beta1 protein was lyophilized from a solution containing 30% acetonitrile and 0.1% trifluoroacetic acid.  |
| <b>Storage condition :</b> | 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.DO NOT RECONSTITUTE WITH NEUTRAL BUFFERS.DO NOT USE GLASS IMPLEMENTS OR EXTENSIVE MANIPULATIONS.PREVENT FREEZE THAW CYCLES. |

### Application Note

It is recommended to reconstitute lyophilized TGF-beta 1 in 0.5% BSA in 0.1N acetic acid, which can then be further diluted to the desired aliquot with 30% acetonitrile and 0.1% trifluoroacetic acid. Stimulates the growth of NRK-1 cells in soft agar at concentrations ranging from 0.1 to 5ng/ml corresponding to a specific activity of 200,000-10,000,000IU/mg. Effective concentration ranges must be experimentally determined. Purified EGF and/or TGF- must be present for observation of the biological activity.

