

## TGF b 1 Human

**Description:** 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.

**Catalog #:** CYP5-568

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

For research use only.

**Source:** Human Platelets.

**Physical Appearance:** Sterile Filtered lyophilized powder.

**Purity:** Greater than 97.0%.

**Formulation:**

TGF-Beta1 protein was lyophilized from a solution containing 5mM Sodium Citrate (200

**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. DO NOT RECONSTITUTE WITH NEUTRAL BUFFERS. DO NOT USE GLASS IMPLEMENTS OR EXTENSIVE MANIPULATIONS. PREVENT FREEZE THAW CYCLES.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute lyophilized TGF-beta 1 in sterile 100

**Introduction:**

Transforming growth factor betas (TGF Betas) mediate many cell-cell interactions that occur during embryonic development. Three TGF Betas have been identified in mammals. TGF Beta1, TGF Beta2 and TGF Beta3 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.

**Biological Activity:**

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-alpha at concentrations of at least 2ng/ml must be present for observation of the biological activity.

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