



Product Datasheet

Product Name	Transforming Growth Factor-beta 1 Human
Cata No	CB501295
Source	<i>Human Platelets</i>
Synonyms	Transforming growth factor beta-1, TGF-beta-1, CED, DPD1, TGFB, TGF-b 1.

Description

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.

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.

Physical Appearance

Sterile Filtered lyophilized powder.

Biological Activity

Stimulates the growth of NRK-1 cells in soft agar at concentrations ranging from 0.1 to 5ng/ml. 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.

Purity

Greater than 97.0%.

Formulation

Each µg TGF-Beta1 protein contains 10µg Bovine Serum Albumin as a preservative.

Reconstitution

It is recommended to reconstitute 5µg lyophilized TGF-beta 1 in sterile 100µl 5mM HCl, which can then be further diluted to the desired aliquot to 1ml of PBS containing 2mg Bovine Serum Albumin.

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.

*** For Non-Clinical Research Use Only ***