

## TGF b 1 Human, His

**Description:** TGF-b 1 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 112 amino acids fragment (279-390) having a molecular weight of 17.3kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The TGF-b 1 His is purified by proprietary chromatographic techniques.

**Catalog #:** CYPs-679

For research use only.

**Synonyms:** Transforming growth factor beta-1, TGF-beta-1, CED, DPD1, TGFB, TGF-b 1, TGFB1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

TGF-b 1 His-Tag protein is supplied in 25mM NaAcetate pH 4.8 and 50% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

**Usage:**

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

**Introduction:**

Transforming growth factor betas (TGFβs) mediate many cell-cell interactions that occur during embryonic development. Three TGFβs have been identified in mammals. TGFβ1, TGFβ2 and TGFβ3 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. TGF-b 1 regulates the actions of numerous other growth factors involved in a variety of human diseases including renal disease, hepatic disease, heart failure and cardiomyopathies.

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