

TGF β 1, 279-390 aa, Human, Recombinant, E.coli

Cat.NO.: TP04188

3th Edition

Synonyms:CED, DPD1, TGFB, Transforming growth factor beta 1, TGFB1, TGFbeta, Camurati-Engelmann disease,

Description:Transforming growth factor beta 1(TGF-beta1) is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. Many cells synthesize TGFb1 and almost all of them have specific receptors for it. It positively and negatively regulates many other growth factors. Also, TGF-beta1 plays an important role in bone remodeling, controlling the immune system, and shows different activities on different types of cell, or cells at different developmental stages. Recombinant TGF-beta1 protein was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 10mM Sodium Citrate (pH3.5) containing, 10% glycerol

Molecular Weight:12.9 kDa (113aa), confirmed by MALDI-TOF.

Sequences:

MALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNP
GASAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.