

Recombinant human TGF-beta 1 protein

Catalog Number: ATGP0383

PRODUCT INFORMATION

Expression system

E.coli

Domain

279-390aa

UniProt No.

P01137

NCBI Accession No.

NP_000651.3

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

12.9 kDa (113aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 10mM Sodium Citrate buffer (pH 3.5) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

MALDTNYCFS STEKNCCVRQ LYIDFRKDLG WKWIHEPKGY HANFCLGPCP YIWSLDTQYS KVLALYNQHN PGASAAPCCV
PQALEPLPIV YVGRKPKVE QLSNMIVRSC KCS

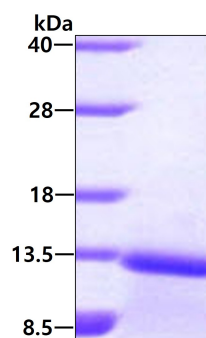
General References

Lebman DA., et al. (1999) *Microbes Infect.* 1(15):1297-304.

Wahl SM., et al. (1988) *J Immunol.* 140(9):3026-32.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.