

DATASHEET
Version 20181206**TGF- β 2, Human****Cat. No.:** Z03429-1**Size:** 1.0 mg

Synonyms: Transforming growth factor beta-2, TGFB2, Polyergin, G-TSF, Glioblastoma-derived T-cell suppressor factor, Cetermin, BSC-1 cell growth inhibitor, TGF-beta-2

Description:

Transforming growth factor beta-2 (TGF- β 2) is a secreted protein which belongs to the TGF-beta family. It is known as a cytokine that performs many cellular functions and has a vital role during embryonic development. The precursor is cleaved into mature TGF-beta-2 and LAP, which remains non-covalently linked to mature TGF-beta-2 rendering it inactive. It is an extracellular glycosylated protein. It is known to suppress the effects of interleukin dependent T-cell tumors. Defects in TGFB2 may be a cause of non-syndromic aortic disease (NSAD).

Recombinant human TGF- β 2 produced by a mammalian expression system is a polypeptide chain containing 112 amino acids. A fully biologically active molecule; rh TGF- β 2 a molecular mass of 12.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:Ala³⁰³-Ser⁴¹⁴ (Accession #:P61812);

00001 ALDAAYCFRN VQDNCLRPL YIDFKRDLGW KWIHEPKGYN

00041 ANFCAGACPY LWSSDTQHSR VLSLYNTINP EASASPCCVS

00081 QDLEPLTILY YIGKTPKIEQ LSNMIVKSCK CS

Source: *Human Cells*

Biological Activity: ED50 <0.2 ng/ml, measured in a cell proliferation assay using mouse HT-2 cells.

Molecular Weight: 12.7 kDa; observed by reducing SDS-PAGE.

Formulation: Lyophilized from a 0.2 μ m filtered solution of 4 mM HCl.

Reconstitution: Reconstituted in ddH₂O at 100 μ g/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 1 EU/ μ g; determined by LAL method.

Storage: Lyophilized recombinant TGF- β 2, human remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution; Human TGF- β 2 should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.