

## TGF beta 2 Protein, Human, Recombinant

### General Information

Synonyms:	Glioblastoma-derived T-cell suppressor factor;TGF- $\beta$ -2;Transforming growth factor $\beta$ -2; Transforming growth factor beta-2;Cetermin;BSC-1 cell growth inhibitor;TGFB2;TGF-beta-2; Polyergin;G-TSF;TGF- $\beta$ 2
Protein Construction:	Ala303-Ser414
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P61812
Molecular Weight:	12 KDa (reducing condition)
AA Sequence:	Ala303-Ser414

### QC Testing

Biological Activity:	Measured by its ability to inhibit the IL-4-dependent proliferation of TF-1 cells. The ED50 for this effect is 30-180pg/ml. (QC verified)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.001 ng/ $\mu$ g (0.01 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 4 mM HCL.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Transforming growth factor beta-2 (TGF- $\beta$ 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 TGF $\beta$ 2 may be a cause of non-syndromic aortic disease (NSAD).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481