

## TGF beta 2 Protein, Mouse/Rat, Recombinant

## General Information

Synonyms:	transforming growth factor $\beta$ -2;BSC-1 cell growth inhibitor;G-TSF;TGF- $\beta$ -2;TGF-beta2;MGC116892;Polyergin;Cetermin;TGF- $\beta$ 2;TGFB2;TGF-beta-2;transforming growth factor beta-2;Glioblastoma-derived T-cell suppressor factor
Protein Construction:	Ala303-Ser414
Species:	Mouse,Rat
Expression Host:	HEK293 Cells
Accession:	P27090
Molecular Weight:	12 KDa (reducing condition)
AA Sequence:	Ala303-Ser414

## QC Testing

Biological Activity:	Immobilized Mouse TGFBR2 -Fc at 10 $\mu$ g/ml (100 $\mu$ l/well) can bind Mouse/Rat TGF-beta 2*.*: Biotinylated by NHS-biotin prior to testing. The ED50 of Mouse TGFBR2 -Fc is 0.136 ug/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 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 4mM HCL. 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 &amp; 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 member of TGF-beta superfamily that shares a characteristic cysteine knot structure. Mice with TGF- $\beta$ 2 gene deletion show defects in development of cardiac, lung, craniofacial, limb, spinal column, eye, inner ear and urogenital systems. All TGF- $\beta$  isoforms signal via the same

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heteromeric receptor complex, consisting of a ligand binding TGF- $\beta$  receptor type II (T $\beta$ R-II), and a TGF- $\beta$  receptor type I (T $\beta$ R-I). Signal transduction from the receptor to the nucleus is mediated via SMADs. TGF- $\beta$  expression is found in cartilage, bone, teeth, muscle, heart, blood vessels, haematopoietic cells, lung, kidney, gut, liver, eye, ear, skin, and the nervous system.

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