

## Product datasheet for **TP728286L**

### Recombinant TGF beta 2 (Transforming growth factor beta 2), Human

#### Product data:

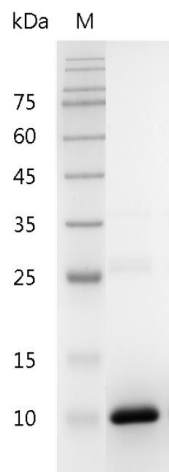
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant TGF beta 2 (Transforming growth factor beta 2), Human
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MALDAAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTI NPEASASPCCVSDLEPLTILYYIGKTPKIEQLSNMIVKSKCS with polyhistidine tag at the C-terminus.
<b>Tag:</b>	His Tag (C-term)
<b>Predicted MW:</b>	The protein has a calculated MW of 13.66 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).
<b>Purity:</b>	>98% as determined by SDS-PAGE.
<b>Buffer:</b>	The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.
<b>Bioactivity:</b>	Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED <sub>50</sub> for this effect is <0.2 ng/mL. The specific activity of recombinant human TGF beta 2 is > 5 x 10 <sup>6</sup> IU/mg.
<b>Endotoxin:</b>	<0.01 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution Method:</b>	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile 10 mM HCl to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
<b>Applications:</b>	Cell culture
<b>Storage:</b>	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
<b>UniProt ID:</b>	<a href="#">P61812</a>
<b>Synonyms:</b>	G-TSF, LDS4, TGFB2



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**Summary:**

Transforming Growth Factors beta 2 (TGFβ-2) is a 12.85 kDa member of the epidermal Growth Factors with 113 amino acid residues. TGFβ-2 is expressed from throughout the body. TGFβ-2 is a regulator of cell proliferation, differentiation, apoptosis, cell plasticity and migration, etc. TGF-β-2 also associates with various kinds of diseases, such as cancer and tissue fibrosis.

**Product images:**

SDS- PAGE analysis of recombinant human TGF beta 2