

## Recombinant Mouse Tgfb1 Protein, His-tagged

Cat. No. Tgfb1-1251M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Tgfb1 Protein (Ala279-Ser390) with His tag was expressed in CHO.

**Species** Mouse

**Source** CHO

**ProteinLength** Ala279-Ser390

#### Description

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. This encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. Mice lacking a functional copy of this gene develop severe multifocal inflammatory disease, yolk sac defects and colon cancer.

**Form** Freeze-dried powder

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<b>Molecular Mass</b>	Predicted Molecular Mass: 14.4 kDa; Accurate Molecular Mass: 15 kDa
<b>Purity</b>	> 97%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS or others.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">Tgfb1 transforming growth factor, beta 1 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Tgfb1</a>
<b>Synonyms</b>	TGFB1; transforming growth factor, beta 1; transforming growth factor beta-1; TGF-beta 1; TGF-beta-1; regulatory protein; transforming growth factor-beta 1; Tgfb; Tgfb-1; TGFbeta1; TGF-beta1;
<b>Gene ID</b>	<a href="#">21803</a>
<b>mRNA Refseq</b>	<a href="#">NM_011577</a>

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**Protein Refseq** NP\_035707

**UniProt ID** P04202

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