

## Product datasheet for **AR51738PU-N**

### TGFB1 (279-390, His-tag) Mouse Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	TGFB1 (279-390, His-tag) mouse recombinant protein, 0.25 mg
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSALDTNYC FSSTEKNCCV RQLYIDFRKD LGWKWIHEPK GYHANFCLGP CPYIWSLDTQ YSKVLALYNQ HNP GASASPC CVPQALEPLP IVYVGRKPK VEQLSNMIVR SCKCS
Tag:	His-tag
Predicted MW:	15 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl (pH 8.0) containing 10% glycerol.
Preparation:	Liquid purified protein
Protein Description:	Recombinant mouse TGFB1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_035707</a>
Locus ID:	21803
UniProt ID:	<a href="#">P04202</a> , <a href="#">Q3UNK5</a>
Cytogenetics:	7 13.98 cM
Synonyms:	TGF-beta; TGF-beta1; Tgfb; Tgfb-1; TGFbeta; TGFbeta1



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**Summary:**

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. [provided by RefSeq, Aug 2016]

**Product images:**