Recombinant Rat TGFB3 Protein, His-tagged

Cat. No. Tgfb3-6039R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat TGFB3 Protein(His274~Ala372), fused with N-terminal His tag, was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	His274~Ala372
Tag	N-His
Form	20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
Bio-activity	Transforming growth factor beta-3 (TGFb3) is a type of protein, known as a cytokine, which is involved in cell differentiation, embryogenesis and development. It belongs to a large family of cytokines called the Transforming growth factor beta superfamily. TGFb3 is believed to regulate molecules involved in cellular adhesion and extracellular matrix (ECM) formation during the process of palate development. It also plays an essential role in controlling the development of lungs in mammals, by also regulating cell adhesion and ECM formation in this tissue, and controls wound healing by regulating the movements of epidermal and dermal cells in injured skin. Besides, Transforming Growth Factor Beta Receptor II (TGFbR2) has been identified as an interactor of TGFb3, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat TGFb3 and recombinant rat TGFbR2. Briefly, TGFb3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate

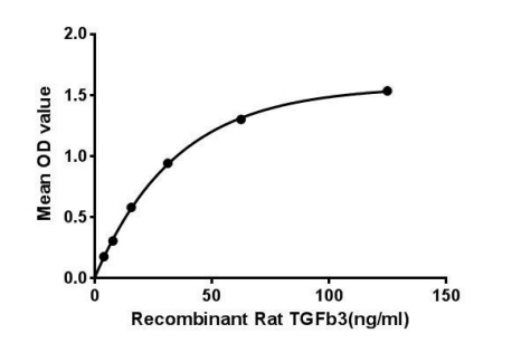
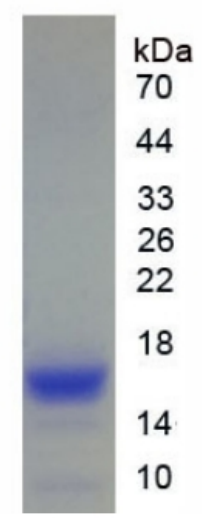
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	samples of 100uL were then transferred to TGFbR2- coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TGFb3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μL stop solution to the wells and read at 450nm immediately.
Molecular Mass	15.3kDa
Purity	>95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Tgfb3 transforming growth factor, beta 3 [Rattus norvegicus]
Official Symbol	Tgfb3
Synonyms	TGFB3; transforming growth factor, beta 3; transforming growth factor beta-3; TGF-beta-3; MGC105479
Gene ID	25717
mRNA Refseq	NM_013174
Protein Refseq	NP_037306

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UniProt ID	Q07258
Activity	
SDS-PAGE	

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