Recombinant Chicken TGFB2 Protein, His-tagged

Cat. No. TGFB2-1253C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Chicken TGFB2 Protein (Leu279-Ser412) with His tag was expressed in E. coli.
Species	Chicken
Source	E.coli
ProteinLength	Leu279-Ser412
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. Disruption of the TGF-beta/SMAD pathway has been implicated in a variety of human cancers. A chromosomal translocation that includes this gene is associated with Peters' anomaly, a congenital defect of the anterior chamber of the eye. Mutations in this gene may be associated with Loeys-Dietz syndrome. This gene encodes multiple isoforms that may undergo similar proteolytic processing.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.1 kDa; Accurate Molecular Mass: 19 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor beta 2 [Gallus gallus (chicken)]
Official Symbol	TGFB2
Synonyms	TGFB2; transforming growth factor beta 2; TGF-beta-2; transforming growth factor beta-2 proprotein; TGF beta2; transforming growth factor-beta2
Gene ID	421352

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mRNA Refseq	NM_001031045
Protein Refseq	NP_001026216
UniProt ID	P30371

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