

Recombinant Horse TGFB1 Protein, His&GST-tagged

Cat. No. TGFB1-1248H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Horse TGFB1 Protein (Ala279-Ser390) with His&GST tag was expressed in E. coli.

Species Horse

Source E.coli

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 TGFB 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. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease.

Form Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 45.2 kDa; Accurate Molecular Mass: 42.8 kDa
Purity	> 95%
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	TGFB1 transforming growth factor, beta 1 [<i>Equus caballus</i> (horse)]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta 1; transforming growth factor beta-1; TGF-beta-1; transforming growth factor beta 1;
Gene ID	100033900
mRNA Refseq	NM_001081849

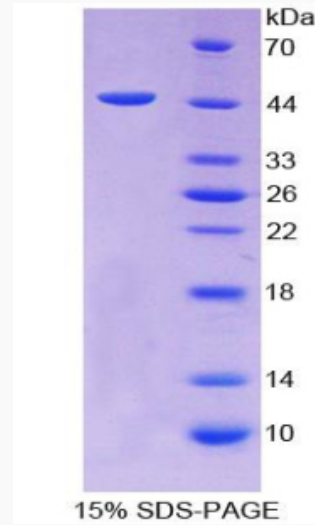
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Protein Refseq NP_001075318

UniProt ID O19011



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