

Recombinant Equine Transforming Growth Factor Beta-2 (TGFB2)

Cat. No.: AP2F282

Product Type: Animal Proteins

Size: 10 µg

Product Overview

BioVenic's Recombinant Equine Transforming Growth Factor Beta-2 (TGFB2) is a recombinant protein expressed from Mammalian expression system. Its predicted molecular weight is 13 kDa. The purity is greater than 95% (SDS-PAGE). The endotoxin level is < 0.01 EU/µg (LAL).

Specifications

Type	Recombinant Protein
Species	Equine
Expression System	Mammalian Expression System
Purity	>95% (SDS-PAGE)
Endotoxin	<0.01 EU/µg (LAL)
Predicted Molecular Weight	13 kDa
Molecular Weight	12 kDa (reducing conditions)
Physical State	Lyophilized

Target Information

Transforming growth factor-beta 2 (TGF-β2) is a secreted protein known as a cytokine that performs many cellular functions and plays a vital role during embryonic development. Research has shown that treatment of equine bone marrow-derived mesenchymal stem cells with TGF-β2 significantly increases the production of paracrine factors and extracellular matrix molecules important for tendon healing and promotes tenocyte migration *in vitro*.

Protein	Equine Transforming Growth Factor Beta-2 (TGFB2)
Protein Synonym	Transforming growth factor beta-2; TGFB2; Polyergin; G-TSF; Glioblastoma-derived T-cell suppressor factor; Cetermin; BSC-1 cell growth inhibitor; TGF-beta-2
Gene ID	100050377
UniProt ID	F6YX31

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -20°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -20°C for 3 months.

User Note

Always centrifuge tubes before opening. Dissolve the lyophilized protein in distilled water. Avoid mixing by vortexing or pipetting. It is not recommended to reconstitute to a concentration < 100 µg/mL. Aliquote the reconstituted solution to minimize freeze-thaw cycles.

Reference

Koch, D. W. *et al.* TGF-β2 enhances expression of equine bone marrow-derived mesenchymal stem cell paracrine factors with known associations to tendon healing. *Stem cell research & therapy*. 2022, 13: 477.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.