
Recombinant human Mature TGF Beta 2 protein (HEK293)

Catalog Number: bs-47204P

Concentration: >0.5 mg/ml

AA Seq: 303-414/414

Predicted MW: 45

Detected MW: Due to glycosylation, the protein migrates to 13-15 kDa based on Tris-Bis PAGE result.

Tags: Tag free

Activity: Not tested

Endotoxin: <1.0 EU/μg as determined by LAL

Purity: >95% as determined by Tris-Bis PAGE; >95% as determined by SEC-HPLC

Purification: AC

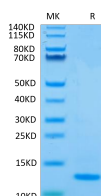
Form: Lyophilized

Storage: Lyophilized from 0.22um filtered solution in PBS (pH7.4) with 5mM DTT. Normally 5% trehalose is added as protectant before Lyophilization.

Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

Background: Transforming growth factor beta s (TGF beta s) were originally discovered due to their ability to promote anchorage-independent growth of rat NRK fibroblasts in the presence of TGF Alpha. It is now realized that TGF beta s mediate many cell-cell interactions that occur during embryonic development. Three TGF beta s have been identified in mammals. TGF beta 1, TGF beta 2 and TGF beta 3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecules. Biologically active TGF beta requires dimerization of the monomers (usually homodimers) and release of the latent peptide portion. Overall, the mature region of the TGF beta 3 protein has approximately 80% identity to the mature region of both TGF beta 1 and TGF beta 2. However, the NH2 terminals or precursor regions of their molecules share only 27% sequence identity.

VALIDATION IMAGES



Mature TGF beta 2 Protein on Tris-Bis PAGE
under reduced condition. The purity is greater
than 95%.