

Synonym

BGCAN, betaglycan

Source

Human TGF-beta RIII / TGFBR3 Protein, His Tag(TG3-H52H3) is expressed from human 293 cells (HEK293). It contains AA Gly 21 - Val 787 (Accession # [Q03167-1](#)).

Predicted N-terminus: Gly 21

Molecular Characterization

TGF-beta RIII(Gly 21 - Val 787)
Q03167-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 86.7 kDa. The protein migrates as 100 kDa and 130-170 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

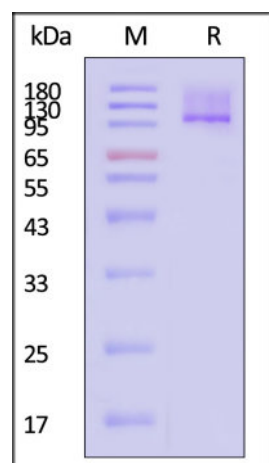
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

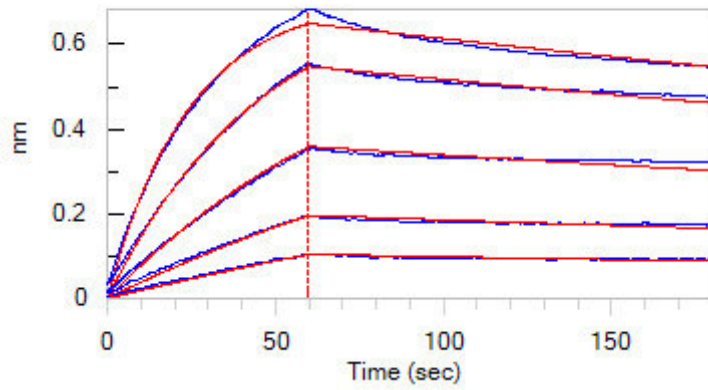
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human TGF-beta RIII / TGFBR3 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-BLI



Loaded Biotinylated Human TGF-Beta 1, Avitag (Cat. No. TG1-H8217) on SA Biosensor, can bind Human TGF-beta RIII / TGFBR3 Protein, His Tag (Cat. No. TG3-H52H3) with an affinity constant of 1.80 nM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).

Background

This locus encodes the transforming growth factor (TGF)-beta type III receptor. The encoded receptor is a membrane proteoglycan that often functions as a co-receptor with other TGF-beta receptor superfamily members. Ectodomain shedding produces soluble TGFBR3, which may inhibit TGFB signaling. Decreased expression of this receptor has been observed in various cancers. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.