

TGFBR3

Recombinant Human TGFBR3 / Betaglycan (His Tag)

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|---------------------------------|---|------------------|-----------------|
| Catalog No. | CRH559A-His CRH559B-His | Quantity: | 50 µg 100 µg |
| Alternate Names: | Transforming growth factor beta receptor type 3, TGF-beta receptor type 3, TGFR-3, Betaglycan, Transforming growth factor beta receptor III, TGF-beta receptor type III | | |
| Description: | Betaglycan also known as transforming growth factor beta receptor III (TGFBR3), is a cell-surface chondroitin sulfate / heparan sulfate proteoglycan. TGFBR3 is a transforming growth factor (TGF)-beta type III receptor. This 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. TGFBR3 is the TGF- β component most commonly downregulated among localized human prostate cancer studies. TGFBR3 knockdown led to focus formation and enhanced expression of CD133, a marker found on prostate cancer stem cells. TGFBR3 is an accessory receptor that binds to and modulates the activities of both transforming growth factor-beta (TGF β) and inhibin, two members of the TGF β superfamily of growth factors that regulate many aspects of reproductive biology. TGFBR3 is known to be expressed in adult testis and ovary, but little is known about this receptor during gonadogenesis. | | |
| UniProt ID: | Q03167-1 | | |
| Protein Construction: | A DNA sequence encoding the human TGFBR3 (Met 1-Gly781) was expressed with a C-terminal polyhistidine tag. | | |
| Source: | Baculovirus-Insect Cells | | |
| Formulation: | Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. | | |
| Molecular Weight: | The secreted rhTGFBR3 consists of 791 amino acids and predicts a molecular mass of 87.8 KDa. The apparent molecular mass of the protein is ~88 KDa in SDS-PAGE under reducing conditions. | | |
| Purity: | > 95 % as determined by SDS-PAGE. | | |
| Endotoxin Level: | < 1.0 EU per µg protein as determined by the LAL method. | | |
| Biological Activity: | Testing in progress | | |
| Predicted N-terminal: | Met | | |
| Reconstitution: | Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. | | |
| Storage & Stability: | Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles. | | |



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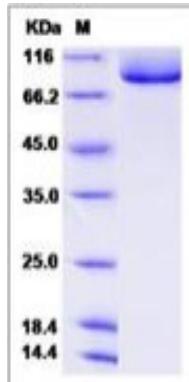
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