

TGFBR3/TGF-beta RIII Protein, Human (sf9, His)

Cat. No.:	HY-P74521
Synonyms:	TGFBR3; TGF-bRIII; TGFR-3; Transforming growth factor beta receptor III; Betaglycan
Species:	Human
Source:	Sf9 insect cells
Accession:	Q03167 (G21-G781)
Gene ID:	7049
Molecular Weight:	Approximately 88 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The TGFBR3/TGF-beta RIII protein plays a pivotal role as it binds to TGF-beta, suggesting potential involvement in capturing and retaining TGF-beta for presentation to the signaling receptors, as inferred by similarity to related proteins. Particularly in gonadotrope cells, TGFBR3 acts as an inhibin A coreceptor, exerting regulatory control over follicle-stimulating hormone (FSH) levels and influencing female fertility, as indicated in relevant studies. Furthermore, TGFBR3 interacts with DYNLT4, underscoring its diverse functional associations in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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