

TGFR3/TGF-beta RIII Protein, Mouse (763a.a, HEK293, His)

Cat. No.:	HY-P72452
Synonyms:	TGFR3; TGF-bRIII; TGFR-3; Transforming growth factor beta receptor III
Species:	Mouse
Source:	HEK293
Accession:	A0A0R4J097 (G23-T785)
Gene ID:	21814
Molecular Weight:	110-125 kDa

PROPERTIES

AA Sequence

G P E P S T R C E L	S P I S A S H P V Q	A L M E S F T V L S	G C A S R G T T G L
P R E V H I L N L R	S T D Q G L G Q P Q	R E V T L H L N P I	A S V H T H H K P V
V F L L N S P Q P L	V W H V K T E R L A	A G V P R L F L V S	E G S V V Q F S S G
N F S L T A E T E E	R S F P Q E N E H L	L H W A Q K E Y G A	V T S F T E L K I A
R N I Y I K V G E D	Q V F P P T C N I G	K N F L S L N Y L A	E Y L Q P K A A E G
C V L A S Q P H E K	E V H I I E L I S P	N S N P Y S T F Q V	D I I I D I R P A R
E D P E V V K N L V	L I L K C K K S V N	W V I K S F D V K G	N L K V I A P D S I
G F G K E S E R S M	T V T K L V R N D I	P S T Q E N L M K W	A L D N G Y S P V T
S Y T I A P V A N R	F H L R L E N N E E	M R D E E V H T I P	P E L R I L L G P D
H L P A L D S P S F	Q G E I P N G G F P	F P F P D I P R R G	W K E G E D R I P R
P K E P I I P R V Q	L L P D H R E P E E	V Q G G V N I A L S	V K C D N E K M V V
A V D K D S F Q T N	G Y S G M E L T L L	D P S C K A K M N G	T H F V L E S P L N
G C G T R H R R S A	P D G V V Y Y N S I	V V Q A P S P G D S	S G W P D G Y E D L
E S G D N G F P G D	T D E G E T A P L S	R A G V V V F N C S	L R Q L R S P S G F
Q D Q L D G N A T F	N M E L Y N T D L F	L V P S P G V F S V	A E N E H V Y V E V
S V T K A D Q D L G	F A I Q T C F I S P	Y S N P D R M S D Y	T I I E N I C P K D
D S V K F Y S S K R	V H F P I P H A E V	D K K R F S F V F K	S V F N T S L L F L
H C E L T L C S R K	K G S Q K L P K C V	T P D D A C T S L D	A T M I W T M M Q N
K K T F T K P L A V	V L Q V D Y K E N V	P N M K E S S P V P	P P P Q I F H G L D
T L T			

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 PBS, pH 7.4.

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 ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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