

TGFR2/TGF-beta RII Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7428
Synonyms:	TGFR-2; TGF-beta type II receptor; TGF-beta receptor type 2; TbetaR-II
Species:	Mouse
Source:	HEK293
Accession:	Q62312-2 (I24-D159)
Gene ID:	21813
Molecular Weight:	25-38 kDa

PROPERTIES

AA Sequence	<p>I P P H V P K S V N S D V M A S D N G G A V K L P Q L C K F C D V R L S T C D N</p> <p>Q K S C M S N C S I T A I C E K P H E V C V A V W R K N D K N I T L E T V C H D</p> <p>P K L T Y H G F T L E D A A S P K C V M K E K K R A G E T F F M C A C N M E E C</p> <p>N D Y I I F S E E Y T T S S P D H H H H H H</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 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 ddH ₂ O. 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	<p>Transforming growth factor-beta (TGF-β) is a pleiotropic cytokine with the capability to act as tumor suppressor or tumor promoter depending on the cellular context. TGF-beta receptor type-2 (TGFR2) is the ligand-binding receptor for all members of the TGF-β family and expressed in virtually all cell types including fibroblasts. Regulation of tumor-stromal cross-talk through fibroblastic TGF-β pathway may depend on fibroblast phenotype, emphasising the importance to characterise tumor microenvironment subtypes^[1].</p>
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REFERENCES

[1]. Busch S, et al. TGF-beta receptor type-2 expression in cancer-associated fibroblasts regulates breast cancer cell growth and survival and is a prognostic marker in premenopausal breast cancer. *Oncogene*. 2015 Jan 2;34(1):27-38.

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

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