TMEFF1/Tomoregulin-1 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P77252
Synonyms:	TR-1; H7365; Transmembrane protein with EGF-like and one follistatin-like domain; C9orf2
Species:	Mouse
Source:	HEK293
Accession:	EDL02331.1 (L26-V323)
Gene ID:	230157
Molecular Weight:	Approximately 69 kDa

PROPERTIES

AA Sequence	L F A F C L P G S R A S N Q P A G G G G D C P G G R G K S N C S E L N L R E S D I R V C D E S S C K Y G G V C K E D G D G L K C A C Q F Q C H T N Y I P V C G S N G D T Y Q N E C F L R R A A C K H Q K D I T V V A R G P C Y S D N G S G S G E G A E E E G S G A G A H R K H S K C G P C K Y K A E C D E D A E N V G C V C N I D C S G Y S F N P V C A S D G S S Y N N P C F V R E A S C I K Q E Q I D I R H L G H C T D T D D V S L L G K K D D G L Q Y R P D V K D A G D E R E D V Y I G S H M P C P E N L N G Y C I H G K C E F I Y S T Q K A S C R C E S G Y T G Q H C E K T D F S I L Y V V P S R Q K L T H V
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	TMEFF1/Tomoregulin-1 is a transmembrane protein involved in the physiological functions of the central nervous system, embryonic development, and other biological processes. TMEFF1 is expressed in several structures, including alimentary system, brain, ganglia, genitourinary system, and sensory organ. It is implicated in potentially inhibiting NODAL and BMP signaling during neural patterning, suggesting its role in the regulatory processes governing neural development. TMEFF1 is

proposed to function as a tumor suppressor in brain cancers, underscoring its potential significance in mitigating abnormal cell growth in neural tissues. Additionally, the protein may interact with ST14, implying a molecular association that may contribute to its regulatory and signaling functions. Furthermore, as an independent prognostic factor for endometrial carcinoma, TMEFF1 promotes the invasion and migration of endometrial carcinoma cells, activates the PI3K/AKT and MAPK signaling pathways, and participates in the regulation of EMT[1][2].

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA