

PROPERTIES

## Product Data Sheet

## 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

AA Sequence					
	L F A F C L P G S R	L F A F C L P G S R A S N Q P A G G G G	LFAFCLPGSR ASNQPAGGGG DCPGGRGKSN	LFAFCLPGSR ASNQPAGGGG DCPGGRGKSN CSELNLRESD	
	IRVCDESSCK	IRVCDESSCK YGGVCKEDGD	IRVCDESSCK YGGVCKEDGD GLKCACQFQC	IRVCDESSCK YGGVCKEDGD GLKCACQFQC HTNYIPVCGS	
	NGDTYQNECF	NGDTYQNECF LRRAACKHQK	NGDTYQNECF LRRAACKHQK DITVVARGPC	NGDTYQNECF LRRAACKHQK DITVVARGPC YSDNGSGSGE	
	GAEEEGSGAG		GAEEEGSGAG AHRKHSKCGP CKYKAECDED	GAEEEGSGAG AHRKHSKCGP CKYKAECDED AENVGCVCNI	
	GHCTDTDDVS	GHCTDTDDVS LLGKKDDGLO	GHCTDTDDVS LIGKKDDGLO YRPDVKDAGD	GHCTDTDDVS LIGKKDDGLO VRPDVKDAGD FREDVVIGSH	
	MPCPENLNGY	MPCPENLNGY CIHGKCEFIY	MPCPENLNGY CIHGKCEFIY STOKASCRCE	MPCPENLNGY CIHGKCEFIY STOKASCRCE SGYTGOHCEK	
	TDFSILYVVP	TDFSILYVVP SRQKLTHV	TDFSILYVVP SRQKLTHV	TDFSILYVVP SRQKLTHV	
Appoaranco	Lyophilized powder	Lyophilized powder	Lyophilized powder	Lyophilized powder	
Appearance	Lyophilized powder	Lyophilizea powder	Lyophilized powder	Lyophilized powder	
Formulation	Lyophilized from a 0.2 μm	Lyophilized from a 0.2 µm filtered solution of PBS, pH	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4.	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4.	
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Endotoxin Level	<1 EU/µg, determined by	<1 EU/ $\mu$ g, determined by LAL method.	<1 EU/µg, determined by LAL method.	<1 EU/µg, determined by LAL method.	
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O. For long term storage it is				
	recommended to add a c	recommended to add a carrier protein (0.1% BSA, 5%	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehald	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	Stored at -20°C for 2 years. After reconstitution, it is st	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 weak or -20°	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 protei	
Storage & Stability	Stored at -20°C for 2 years	Stored at -20°C for 2 years. After reconstitution, it is st	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20° recommended to freeze alignots at $-20^{\circ}$ C or $-80^{\circ}$ C for extended storage	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 recommended to freeze alignots at -20°C or -80°C for extended storage	
	recommended to neeze a		recommended to neeze anquots at -20 C of -50 C for extended storage.	recommended to neeze anduots at -20 C of -50 C for extended storage.	
Shipping	Room temperature in cor	Room temperature in continental US; may vary elsew	Room temperature in continental US; may vary elsewhere.	Room temperature in continental US; may vary elsewhere.	

DESCRIPTION	
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Background	TMEFF1/Tomoregulin-1 is a transmembrane protein involved in the physiological functions of the central nervous syste embryonic development, and other biological processes. TMEFF1 is expressed in several structures, including alimenta system, brain, ganglia, genitourinary system, and sensory organ. It is implicated in potentially inhibiting NODAL and BM signaling during neural patterning, suggesting its role in the regulatory processes governing neural development. TMEF

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<sup>[1][2]</sup>.

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

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