
Product Data Sheet

Product Name: TMEFF1 Human
 Cat. No.: GP24848
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	C9orf2; CT120.1; H7365; TR-1; Tomoregulin-1; Transmembrane protein with EGF-like and one follistatin-like domain; TMEFF1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSSNQPPGG GGGSGGDCPG GKGKSINCSE LNVRES DVRV CDESSCKYGG VCKEDGDGLK CACQFQCHTN YIPVCGSNGD TYQNECFLRR AACKHQKEIT VIARGPCYSD NGSGSGEGEE EGSGAEVHRK HSKCGPCKYK AECDEDAENV GCVCNIDCSG YSFNPVCASD GSSYNNPCFV REASCIKQEQ IDIRHLGHCT DTDDTSLGK KDDGLQYRPD VKDASDQRED VYIGNHMPCP ENLNGYCIHG KCEFIYSTQK ASCRCESGYT GQHCEKTD FS ILYVVPSRQK LTHV.		
Formulation	The TMEFF1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 10% glycerol.		

Introduction

TMEFF1 is a type I transmembrane glycoprotein which includes 2 follistatin modules and an EGF domain in its extracellular domain, a transmembrane domain and a short cytoplasmic tail. The extracellular domain of TMEFF1 can be released as a soluble protein. TMEFF1 is primarily expressed in brain, but is downregulated in brain neoplasms. TMEFF1 selectively regulates nodal but not activin signaling through direct binding to the nodal co-receptor, Cripto. TMEFF inhibits NODAL and BMP signaling through neural patterning and also a possible tumor suppressor in brain cancers.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

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Background

TMEFF1 Human Recombinant produced in E. coli is a single polypeptide chain containing 314 amino acids (40-330) and having a molecular mass of 33.9kDa. TMEFF1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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