
Product Data Sheet

Product Name: TMOD3 Human
 Cat. No.: GP24850
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tropomodulin-3; Ubiquitous tropomodulin; U-Tmod; TMOD3; UTMOD.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMALPFR KDLEKYKDLD EDELLGNLSE TELKQLETVL DDLDPENALL PAGFRQKNQT SKSTTGPFDR EHLLSYLEKE ALEHKDREDY VPYTGEKKGK IFIPKQKPVQ TFTEEKVSLD PELEEAL TSA SDTELCDLAA ILGMHNLITN TKFCNIMGSS NGVDQEHFSN VVKGEKILPV FDEPPNPTNV EESLKRTKEN DAHLVEVNLN NIKNIPIPTL KDFAKALETN THVKCFSLAA TRSNPDVATA FAEMLKVNKT LKSLNVESNF ITGVGILALI DALRDNETLA ELKIDNQRQQ LGTAVELEMA KMLEENTNIL KFGYQFTQQG PRTRAANAIT KNNDLVRKRR VEGDHQ.		
Formulation	TMOD3 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.		

Introduction

Tropomodulin 3 (TMOD3) is a member of the tropomodulin family. TMOD3 prevents the elongation and depolymerization of the actin filaments at the pointed end. Actin cytoskeleton regulation by filament capping proteins is essential to many dynamic cellular functions. TMOD3 functions as a negative regulator of cell migration; nevertheless the processes behind its cellular functions are unknown. The Tmod/TM complex influences the formation of the short actin protofilament, which sequentially outlines the geometry of the membrane skeleton.

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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

TMOD3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 376 amino acids (1-352 a.a) and having a molecular mass of 42kDa. TMOD3 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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