

## TMOD3 Human

**Description:** 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.

**Catalog #:** PRPS-1172

For research use only.

**Synonyms:** Tropomodulin-3, Ubiquitous tropomodulin, U-Tmod, TMOD3, UTMOD.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMALPFR KDLEKYKDLD  
EDELGNLSE TELKQLETVL DDLDPENALL PAGFRQKNQT SKSTTGPFDR EHLLSYLEKE  
ALEHKDREDY VPYTGEKKGK IFIPKQKPQV TFTEEKVSLD PELEEAL TSA SDTELCDLAA  
ILGMHNLITN TKFCNIMGSS NGVDQEHFSN VVKGEKILPV FDEPPNPTNV EESLKRTKEN  
DAHLVEVNLN NI

**Purity:** Greater than 80.0% as determined by SDS-PAGE.

**Formulation:**

TMOD3 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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