

AR51823PU-S**Human Transglutaminase-2 (TGM2) (1-687, His-tag) - Purified****Alternate names:**

Protein-glutamine gamma-glutamyltransferase 2, TGase C, TGase-H, Tissue transglutaminase

Quantity:

50 µg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

TGM2 also known as Protein-glutamine gamma-glutamyltransferase 2. Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. TGM2 acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis.

Uniprot ID:[P21980](#)**NCBI:**[NP_004604](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >85% by SDS - PAGE**Buffer System:** Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT.**Description:**

Recombinant human TGM2, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHHH SSGLVPRGSH MGSM AEEVLV ERCDLELETN GRDHHTADLC REKLVVRRGQ
PFWLTLHFEG RNYEASVDSL TFSVVTGPAP SQEAGTKARF PLRDAVEEGD WTATVVDQQD
CTLSLQLTTP ANAPIGLYRL SLEASTGYQG SSFVLGHFIL LFNAWCPADA VYLDSEEEERQ
EYVLTQQGFI YQGS AKFIKN IPWNFGQFED GILDICLILL DVNPKFLKNA GRDCSRRSSP
VYVGRVVS GM VNCNDDQGV LGRWDN NYGD GVS PMSWIGS VDILRRWKNH GCQRVKYGC
WVFAAVACTV LRCLGIPTRV VTNYN SAHDQ NSNLLIEYFR NEFGEIQGDK SEMIWNFHCW
VESW MTRPDL QPGYEGWQAL DPTPQEKSEG TYCCGPVPVR AIKEGDLSTK YDAPFVFAEV
NADVVDWIQQ DDG SVHKSIN RSLIVGLKIS TKS VGRDERE DITHTYKYPE GSSEEREAFY
RANHLNKLAE KEETGMAMRI RVGQSMNMGS DFDVFAHITN NTAEEYVCRLL LCARTVSYN
GILGPECGTK YLLNLNLEPF SEKSVPLCIL YEKYRDCLTE SNLIKVRALL VEPVINSYLL
AERDLYLENP EIKIRILGEP KQKRKLVAEV SLQNPLPVAL EGCTFTVEGA GLTEEQKTVE
IPDPVEAGEE VKVRMDLLPL HMLHKL VVN FESDKLKAVK GFRNVIIGPA

Molecular weight: 79.7 kDa (710aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Jeong JH., et al. (2013) J. Korean Med. Sci. 28 (7), 1005-1014

Pictures:

