

Recombinant human Transglutaminase 2/TGM2 protein

Catalog Number: ATGP3003

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-687aa

UniProt No.

P21980

NCBI Accession No.

NP_004604

Alternative Names

Protein-glutamine gamma-glutamyltransferase 2 isoform a, Transglutaminase 2, G-ALPHA-h, GNAH, HEL-S-45, TG2; TGC

PRODUCT SPECIFICATION

Molecular Weight

79.7 kDa (710aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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. Recombinant human TGM2, fused to His-tag at N-terminus, was expressed in E. coli

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and purified by using conventional chromatography techniques.

Amino acid Sequence

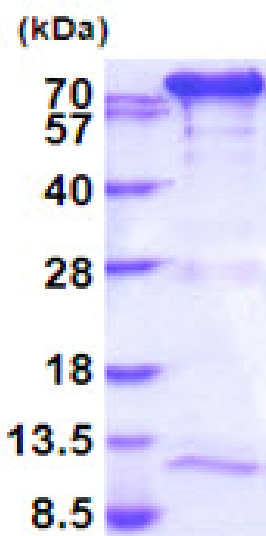
MGSSHHHHHHH SSGLVPRGSH MGSMAEELVL ERCDLELETN GRDHHTADLC REKLVVRRGQ PFWLTLHFEG
RNYEASVDSL TFSVVTGPAP SQEAGTKARF PLRDAVEEGD WTATVVDQQD CTLSLQLTTP ANAPIGLYRL SLEASTGYQG
SSFVLGHFIL LFNAWCPADA VYLDSEERQ EYVLTQQGFI YQGSAKFIKN IPWNFGQFED GILDICLILL DVNPKFLKNA
GRDCSRRSSP VYVGRVVSGM VNCNDDQGV LGRWDNNYGD GVSPMSWIGS VDILRRWKNH GCQRVKYGQC
WVFAAVACTV LRCLGIPTRV VTNYN SAHDQ NSNLLIEYFR NEFGEIQGDK SEMIWNFHCW VESWMTRPDL QPGYEGWQAL
DPTPQEKSEG TYCCGPVVR AIKEGDLSTK YDAPFVFAEV NADVVDWIQQ DDG SVHKSIN RSLIVGLKIS TKS VGRDERE
DITHTYKYPE GSSEEREAF RANHLNKLAE KEETGMAMRI RVGQSMNMG SDFDVFAHITN NTAE EYVCRL LLCARTVSYN
GILGPECGTK YLLNLNLEPF SEKSVPLCIL YEKYRDCLTE SNLIKVRALL VEPVINSYLL AERDLYLENP EIKIRILGEP
KQKRKLVAEV SLQNPLPVAL EGCTFTVEGA GLTEEQKTVE IPDPVEAGEE VKVRMDLLPL HMGLHKLNVN FESDKLKAVK
GFRNVIIGPA

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)