

TGM2, 1-687aa, Human, His tag, E.coli

Cat.NO.: TP04196

3th Edition

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

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 and purified by using conventional chromatography techniques.

Form:Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT

Molecular Weight:79.7kDa (710aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSM AEELVLERCDLELETNGRDHHTADLCREKLVVRRGQPFWLT LHFEGRNY
EASVDSLTF SVVTGPAPSQEAGTKARFPLRDAVEEGDWTATVVDQQDCTLSLQLTTPANAPIGLYRLSLEASTGYQ
GSSFVLGHFILLFNAWCPADAVYLDSEEERQEYVLTQQGFIYQGS AKFIKNIPWNFGQFEDGILDICLILLDVNPKFLK
NAGRDCSRRSPVYVGRVVSGMVN CNDDQGVLLGRWDN NYGDGVSPMSWIGSVDILRRWKNHGCQRVKYGGC
WVFAAVACTVLRCLGIPTRVVTNYNSAHDQNSNLLIEYFRNEFG EIQQDKSEMIWNFHCWVESWMTRPDLQPGYE
GWQALDPTPQEKSEGT YCCGPVPVRAIKEGDLSTKYDAPFVFAE VNAVVDW IQDDG SVHKSINRSLIVGLKIST
KSVGRDEREDITHYKYPEGSSEEREAFTRANHLNKLAEKEETGMAMRIRV GQSMNMGSDFDVFAHITNNTAEEY
VCRLLLCARTVSYNGILGPECGTKYLLNLNLEPFSEKSVPLC ILYEKYRDCLTESNLIKVRALLVEPVINSYLLAERDLY
LENPEIKIRILGEPKQKRKLVAEVS LQNPLPVALEGCTFTVEGAGL TEEQKTVEIPDPVEAGEEVKVRMDLLPLHMGL
HKLVVNFESDKLKAVKGF RNVIIGPA

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.