

Product datasheet for PH300226

Transglutaminase 2 (TGM2) (NM_198951) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TGM2 MS Standard C13 and N15-labeled recombinant protein (NP_945189)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200226
Predicted MW:	61.5 kDa
Protein Sequence:	>RC200226 representing NM_198951 Red=Cloning site Green=Tags(s)

MAEELVLERCDLELETNGRDHHTADLCREKLVVRRGQPFWLT LHFEGRNYEASVDSLTF SVVTGPAPSQE
AGTKARFPLRDAVEEGDWTATVVDQDCTLSLQLTTPANAPIGLYRLSLEASTGYQGSSFVLGHFILLFN
AWCPADAVYLDSEERQEYVLTQQGFIYQGS AKFIKNIPWNFGQFEDGILDICLILLDVNPKFLKNAGR
CSRRSSPVYVGRVSGMVNCDQGVLLGRWDNNGDGVSPMSWIGSVDILRRWKNHGCQRVKYGGQCVWF
AAVACTVLRCLGIPTRVVTNYS AHDQNSNLLIEYFRNEFG EIQGDKSEMIWNFHCWVESWMTRPDLQPG
YEGWQALDPTPQEKSEGT YCCGPVPVRAIKEGDLSTKYDAPFVFAEVNADVVDWIQQDDGSVHKSINRSL
IVGLKISTKSVGRDEREDITHYKYPEGSSEEREAFTRANHLNKLAEKEETGMAMRIRVQSMNMGSDFD
VFAHITNNTAEEYVCRLLL CARTVSYNGILGPECGTKYLLNLNLEPFSGKALCSWSIC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_945189</u>
RefSeq Size:	1879
RefSeq ORF:	1644



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Synonyms: G(h); hTG2; TG(C); TGC; tTG

Locus ID: 7052

UniProt ID: [P21980](#)

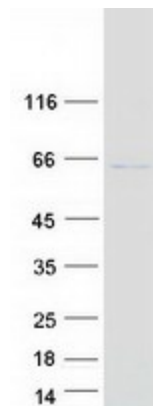
Cytogenetics: 20q11.23

Summary: 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. The protein encoded by this gene acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease

Product images:



Coomassie blue staining of purified TGM2 protein (Cat# [TP300226]). The protein was produced from HEK293T cells transfected with TGM2 cDNA clone (Cat# [RC200226]) using MegaTran 2.0 (Cat# [TT210002]).