Product information

Tgm2, 1-686aa

Mouse, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3041

Full name: Protein-glutamine gamma-glutamyltransferase 2 **NCBI Accession No.:** NP_033399

Synonyms: G[a]h, TG2, TGase2, tTG, tTGas

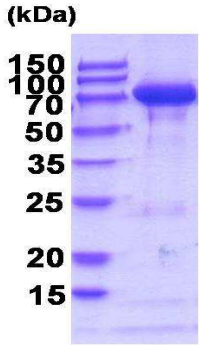
Description: Tgm2, also known as protein-glutamine gamma-glutamyltransferase 2 is calcium dependent enzyme of the protein-glutamine γ-glutamyltransferases family. Like other transglutaminases, it crosslinks proteins between an ε-amino group of a lysine residue and a γ-carboxamide group of glutamine residue, creating an inter- or intramolecular bond that is highly resistant to proteolysis (protein degradation). Aside from its crosslinking function, tTG catalyzes other types of reactions including deamidation, GTP-binding/hydrolyzing, and isopeptidase activities. Unlike other members of the transglutaminase family, tTG can be found both in the intracellular and the extracellular spaces of various types of tissues and is found in many different organs including the heart, the liver, and the small intestine. Recombinant mouse Tgm2 protein, 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: 79.4kDa (709aa)

Purity: > 85% by SDS - PAGE

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



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSMAEELLL ERCDLEIQAN GRDHHTADLC QEKLVLRRGQ RFRLTLYFEG RGYEASVDSL TFGAVTGPDP
SEEAGTKARF SLSDNVEEGS WSASVLDQQD NVLSLQLCTP ANAPIGLYRL SLEASTGYQG SSFVLGHFIL LYNAWCPADD VYLDSEEERR
EYVLTQQGFI YQGSVKFIKS VPWNFGQFED GILDTCLMLL DMNPKFLKNR SRDCSRRSSP IYVGRVVSAM VNCNDDQGVL LGRWDNNYGD
GISPMAWIGS VDILRRWKEH GCQQVKYGQC WVFAAVACTV LRCLGIPTRV VTNYNSAHDQ NSNLLIEYFR NEFGELESNK SEMIWNFHCW
VESWMTRPDL QPGYEGWQAI DPTPQEKSEG TYCCGPVSVR AIKEGDLSTK YDAPFVFAEV NADVVDWIRQ EDGSVLKSIN RSLVVGQKIS
TKSVGRDDRE DITHTYKYPE GSPEEREVFT KANHLNKLAE KEETGVAMRI RVGDSMSMGN DFDVFAHIGN DTSETRECRL LLCARTVSYN
GVLGPECGTE DINLTLDPYS ENSIPLRILY EKYSGCLTES NLIKVRGLLI EPAANSYLLA ERDLYLENPE IKIRVLGEPK QNRKLVAEVS
LKNPLSDPLY DCIFTVEGAG LTKEQKSVEV SDPVPAGDLV KARVDLFPTD IGLHKLVVNF QCDKLKSVKG YRNVIIGPA

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Product information

General references:

Nanda N., *et al.* (1999) *Arch. Biochem. Biophys.* 366:151-156

D'Amato M., *et al.* (1999) *Cell Death Differ.* 6:216-217

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.

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