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Tgm2, 1-686aa, Mouse, His tag, E.coli

产品货号: TP04195

第三版

别名:Protein-glutamine gamma-glutamyltransferase 2, G[a]h, TG2, TGase2, tTG, tGase

描述:Tgm2, also known as protein-glutamine gamma-glutamyltransferase 2 is calcium dependent enzyme of the protein-glutamine gamma-glutamyltransferases family. Like other transglutaminases, it crosslinks proteins between an epsilon-amino group of a lysine residue and a gamma-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.

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

分子量:79.4kDa (709aa)

序列:

MGSSHHHHHSSGLVPRGSHMGSM AEELLERCDLEIQANGRDHHTADLCQEKLVLRRGQRFRLTYFEGRGYEAASVDS
LTFGAVTGPDPSEEAGTKARFSLSDNVEEGSWSASVLDQQDNVLSLQLCTPANAPIGLYRLSLEASTGYQGSSFVLGHFILLY
NAWCPADDVYLDSEERREYVLTQQGFYQGSVKFIKSVPNWFGQFEDGILDTCMLLDMNPKFLKNRSRDCSRRSSPIYV
GRVVSAMVNCNDDQGVLLGRWDNNGDGISPMAWIGSV DILRRWKEHGCQQVKYGGCWVFAAVACTVLRCLGIPT
RVVTNYNSAHDQNSNLLIEYFRNEFGELESNKSEMIWNFHCWVESWMTRPDLQPGYEGWQAIDPTPQEKSEGTYCCGP
VSVRAIKEGDLSTKYDAPFVFAEVNADVVDWIRQEDGSVLKSINRSLVVGQKISTKSVGRDDREDITHYKYPEGSPEERE
VFTKANHLNKLAEKEETGVAMRIRVGDSMSGNDVFAHIGNDTSETRECRLLLCARTVSYNGVLGPECGTEDINLTL
DPYSENSIPLRILYEKYSGCLTESNLIKVRGLLIEPAANSYLLAERDLYLENPEIKIRVLGEPKQNRKLVAEVSLKNPLSDPLYDC
IFTVEGAGLTKEQKSVEVSDPVPAGDLVKARVDLFPDTDIGLHKLNVNFQCDKLSVKGYRNVIIIGPA

纯度:> 95% by HPLC

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

内毒素:<1.0 EU per 1 ug of protein (determined by LAL method)

存储:+4 ° C 保存 (1-2 周). 长期保存在-20 ° C 或者-70 ° C. 避免反复冻融.