

Product number **T016**
Revision number **RN3.0**

Product Name	Microbial Pro-transglutaminase (His ₆ -rProTG) Proenzyme (Zymogen)
Synonym	EC 2.3.2.13; Protein-glutamine-γ-glutamyltransferase; Bacterial Pro-transglutaminase, pro-MTG, pro-BTG
Source	Recombinantly produced in <i>E. coli</i>
Quantity	250 µg
Molecular Weight	43 kDa
Application	Labeling, immobilisation, conjugation and modification of proteins.
Purity	> 90% [SDS-PAGE and Coomassie staining]
Appearance	White lyophilized solid.
Reagents	The Protransglutaminase is lyophilised from 10 mM Tris-HCl pH 8.0, 150 mM NaCl.
Reconstitution	Add the volume of water specified in the certificate of analysis under aliquotation to the vial of lyophilized powder. Rotate vial gently until solid dissolves. For short term storage keep cooled on ice.
Activation:	10 µl His ₆ -rProTG (1 µg/µl) 35 µl 50 mM Tris-HCl pH 8 5 µl Dispase II (Roche) (0.2 µg/µl) Incubate for 20 min at 30°C
Specific Activity	13 U/mg [One unit will catalyse the formation of 1 µmol of hydroxamate per min from Z-Gln-Gly-OH and hydroxylamine at pH 6.0 at 37 °C, Grossowicz et al. (1950)]
Storage	Store at –20 °C in working aliquots. Repeated freezing and thawing is not recommended. <i>Delivery at ambient temperature is possible</i>
Reference(s)	Pasternack et al., Eur. J. Biochem. 1998, 257:570-6
Related products	T001 Microbial transglutaminase Z009 ZediXclusive Microbial Transglutaminase Assay Kit C102 MTG-Blocker A020 Polyclonal antibody to microbial protransglutaminase (pro-MTG, pro-BTG)
Release date	23 December 2021
NOTE	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.