

Product number **T156**
Revision number **RN2.0**

Product Name	Biotinylated mouse tissue transglutaminase
Synonym	Tissue-type Transglutaminase, TG2, TGase 2, proteinglutamine- γ -glutamyltransferase
Source	Recombinant produced in <i>E. coli</i> .
Quantity	250 μ g / 1 mg
Molecular Weight	79 kDa
Activity	> 750 U/mg [Activity is determined by measuring the rate of fluorescence enhancement after His ₆ -rmTG2-catalyzed monodansylcadaverine-incorporation into N,N-dimethylated casein according to Lorand et al., Anal. Biochem. 44 (221-231)]. 1 U is defined as the increase in fluorescence intensity of 1 a.u./min (measured on a Cary eclipse fluorescence spectrophotometer, Varian; λ_{ex} = 332 nm, λ_{em} = 500 nm; band filter = 5 nm; detector strength = 600 V; temperature = 37 °C, assay volume = 1 ml)].
Application	His ₆ -rmTG2 catalyzes acyl transfer reactions from glutamin residues in proteins or peptides to primary amines, e.g. the formation of ϵ -(γ -glutamyl) lysine bonds between proteins by transferring the acyl group of a peptide-bound glutamine residue to the primary amino group of a peptide-bound lysine residue. His ₆ -rmTG2 may also be used for immunoprecipitation.
Appearance	Liquid.
Purity	> 95 % (visually by SDS-PAGE)
Reagents	The Transglutaminase is formulated in 10 mM Sodium Phosphate pH 8.0, 15 mM NaCl. Sample contains 50% glycerol. His ₆ -rmTG2 is a Ca ²⁺ -dependent enzyme.
Activation	Add 10 mM Ca ²⁺ to activate His ₆ -rmTG2.
Storage	Store at -20 °C in working aliquots. Repeated freezing and thawing is not recommended.
Related products	T123 hTG2-Biotin (biotinylated human TG2, rec. prod. in HEK293) T002 Human tissue transglutaminase (hTG2, recombinantly produced in <i>E. coli</i>) A033 Monoclonal antibody to tissue transglutaminase (TG2, Core Domain)
Release date	03 January 2022
NOTE	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.