

Product number **T122**
Revision number **RN4.0**

Product Name	Recombinant TG2 (insect cells)
Synonym	Tissue-type Transglutaminase, TG2, TGase 2, protein-glutamine- γ -glutamyltransferase
Source	Recombinantly produced in insect cells
Molecular Weight	78 kDa
Activity	Specific activity > 2000 U/mg [Activity is determined by measuring the rate of fluorescence enhancement after His ₆ -rhTG2-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)].
Protein	Protein concentration was measured according to Bradford et al., Anal. Biochem. 72 (248-251) using bovine serum albumin as a standard. Result see Certificate of Analysis.
Purity	HPLC: > 95% SDS-PAGE (Coomassie): single dominant protein band at ~80 kDa.
Appearance	White lyophilized solid.
Formulation	Purified rhTG2 is formulated in the following buffer: 10 mM Tris-HCl pH 8.1, 150 mM NaCl, 5 mM DTT, 1 mM EDTA, 189 mg/mL Maltodextrin
Reconstitution	Add the volume of H ₂ O the protein is lyophilized from (see Certificate of Analysis) to the vial of lyophilized powder. Rotate vial gently until solid dissolves. After reconstitution the solution should be stored frozen in working aliquots. Keep cooled on ice for short term storage.
Application	The recombinant antigen is meant for solid (ELISA and immuno blot) and fluid phase diagnostic assays. The protein is bound by human type IgA and IgG (auto) antibodies.
Coating	Dilute with your coating buffer to an appropriate concentration e.g. 1 μ g/ml. Please notice that coating conditions have to be evaluated carefully.
Storage	Store at -80°C. If storage at -80°C is not possible, storage at \leq -20°C is recommended. While no formal stability data are available at -20°C, according to our overall experience stability is still given. Upon reconstitution, store undiluted working aliquots preferably at -80°C (if not possible at \leq -20°C, see comment above). Avoid repeated freezing and thawing. <i>Delivery is possible at ambient temperature</i>
Related products	T110 Recombinant TG2 (<i>E. coli</i>) T051 Open tTG™
Release date	17 December 2021
NOTE	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.