

Product number **T021**  
Revision number **RN3.0**

<b>Product Name</b>	Human neuronal transglutaminase (TG6, recombinantly produced in insect cells)
<b>Synonym</b>	Neuronal Transglutaminase, TG <sub>γ</sub> , TG6, TGase 6, proteinglutamine-γ-glutamyltransferase
<b>Source</b>	Recombinantly produced in insect cells
<b>Molecular Weight</b>	78 kDa
<b>Application</b>	His <sub>6</sub> -rhTG6 catalyzes acyl transfer reactions from glutamine 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.
<b>Purity</b>	> 95% [SDS-PAGE and Coomassie staining] The gel shows a single dominant protein band at ~80 kDa.
<b>Appearance</b>	White lyophilized solid.
<b>Reagents</b>	The Transglutaminase is lyophilized from 10 mM Tris-HCl pH 8.2, 500 mM NaCl, 2 mM DTT. Sample contains sucrose.  His <sub>6</sub> -rhTG6 is a Ca <sup>2+</sup> -dependent enzyme.
<b>Reconstitution</b>	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. After reconstitution the solution should be stored frozen in working aliquots. For short term storage keep cooled on ice.
<b>Storage</b>	Store at -80°C.  If storage at -80°C is not possible, storage at ≤ -20°C is recommended. While no formal stability data are available at -20°C, according to our overall experience stability is still given.  Store working aliquots preferably at -80°C (if not possible at ≤ -20°C, see comment above). Repeated freezing and thawing is not recommended.  <b><i>Delivery at ambient temperature is possible</i></b>
<b>Reference(s)</b>	Fukui et al., FEBS J. 2013, 280:1420-9; Schaertl et al., J. Biomol. Screen. 2010, 15:478-87
<b>Related products</b>	T064 Inhibited human neuronal transglutaminase A017 Polyclonal antibody to human neuronal transglutaminase A031 FITC-labelled polyclonal antibody to human TG6 T036 Transglutaminase Assay Kit, fluorescent, Casein, Dansylcadaverine
<b>Patent protection</b>	<b>TG6 and its usage for diagnostics are both under protection of Zedira's patents US 7,052,890, EP 1317548 and EP 1978364.</b>
<b>NOTE</b>	TG6 IS INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.
<b>Release date</b>	23 December 2021