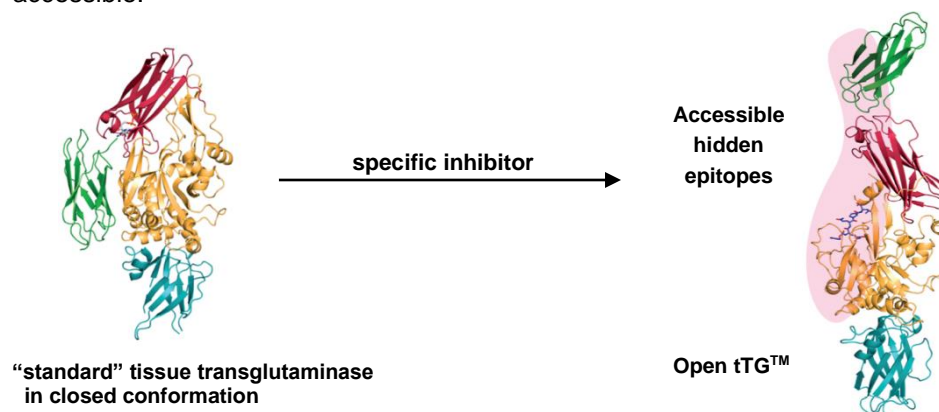


Product number **T051**  
Revision number **RN4.1**

**Product Name** Open tTG™

**Background info** Human tissue transglutaminase is recombinantly produced in insect cells, and conjugated with a specific inhibitor in order to stabilize the open conformation. Thereby new epitopes become accessible.



**Quantity** 250 µg / 1 mg

**Molecular Weight** 78 kDa (Val224-allele, Kanchan et al., Biochem. J. 2013, 455:261-72)

**Application** Open tTG™ may be used for immunoprecipitation and detection of autoantibodies in body fluid samples from patients suffering from autoimmune diseases like psoriasis or gluten sensitive enteropathy. For coating of micro titer plates the addition of 10 mM Ca<sup>2+</sup> is recommended.

**Appearance** Liquid

**Formulation** The Open tTG™ is supplied in 20 mM Tris-HCl pH 7.2, 150 mM NaCl, 1 mM EDTA, 1 mM DTT, 10% Glycerol

**Purity** > 95% by SDS-PAGE under reducing conditions

**Storage** Upon receipt, store immediately at -80°C. Stability is given for at least 10 years when stored at -80°C (see retest date on Certificate of Analysis), with potential to date extend after retesting. 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 undiluted working aliquots preferably at -80°C (if not possible at ≤ -20°C, see comment above). Storage of diluted aliquots may result in severe activity loss.

Avoid repeated freezing and thawing.

**Reference(s)** Lortat-Jacob et al., J. Biol. Chem. 2012, 25:18005-18017  
Lindfors et al., J. Clin Immunol. 2011, 31:436-42  
Pallav et al., Dig. Liver Dis. 2012, 44:375-8  
Protein Data Bank (PDB) entry: 3S3P

**Related products** T057: Inhibited human epidermal transglutaminase (inhibited TG3)  
T064: Inhibited human neuronal transglutaminase (inhibited TG6)  
B011: Biotin-MA-QPL-OMe  
Z013: Z-MA-QPL-OMe  
([http://zedira.com/data/newsletter/newsletter\\_20080902.pdf](http://zedira.com/data/newsletter/newsletter_20080902.pdf))

# Product Data Sheet



Product number **T051**  
Revision number **RN4.1**

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**Release date** 07 December 2023

**NOTE**

INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.

Usage in celiac disease diagnostic products may require a license for European Patent 0912898 and US Patent US 8,808,980 B2.