Product Name: Human tissue transglutaminase (hTG2, recombinantly produced in insect cells)

Synonym: Tissue-type Transglutaminase, TG2, TGase 2, proteinglutamine-γ-glutamyltransferase

Source: Recombinant produced in insect cells

Quantity: 250 µg / 1 mg

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

Activity: > 1500 U/mg [Activity is determined by measuring the rate of fluorescence enhancement after His6-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; λex = 332 nm, λem = 500 nm; band filter = 5 nm; detector strength = 600 V; temperature = 37°C, assay volume = 1 ml)].

Application: His6-rhTG2 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. His6-rhTG2 may also be used for immunoprecipitation.

Appearance: White lyophilized solid.

Reagents: The Transglutaminase is lyophilized from 10 mM Tris-HCl pH 8.1, 150 mM NaCl, 1 mM EDTA, 5 mM DTT. Sample contains maltodextrin. His6-rhTG2 is a Ca2+-dependent enzyme.

Activation: The Transglutaminase is activated with 10 mM Ca2+

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. After reconstitution the solution should be stored frozen in working aliquots.

Purity: > 90% (visually by SDS-PAGE)

Storage: Store at ≤ -20°C. Store working aliquots at ≤ -20°C. Avoid repeated freezing and thawing.

Delivery is possible at ambient temperature.


Related products:
- A033 Monoclonal antibody to human TG2 (Catalytic Domain)
- F002 Tissue Transglutaminase Assay Kit
- A102 TG2-Assay Substance, Abz-APE(CAD-DNP)QEA-OH
- Z006 Z-DON-Val-Pro-Leu-OMe

Release date: 20 February 2019

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