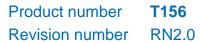
Product Data Sheet





Product NameBiotinylated mouse tissue transglutaminase

Synonym Tissue-type Transglutaminase, TG2, TGase 2, proteinglutamine-y-glutamyltransferase

Source Recombinant produced in *E. coli*.

Quantity $250 \mu g / 1 mg$

Molecular Weight 79 kDa

Activity > 750 U/mg [Activity is determined by measuring the rate of fluorescence enhancement after

His6-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 His6-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.

His₆-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. His₆-rmTG2 is a Ca²⁺-dependent enzyme.

Activation Add 10 mM Ca²⁺ to activate His₆-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 E. coli)
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.