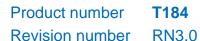
Product Data Sheet





Product Name Cat tissue transglutaminase (*felis catus* TG2, fcTG2)

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

Source Recombinantly produced in *E.coli* cells

Quantity 200 μg

Purity > 90% [by SDS-PAGE]

Molecular Weight 78 kDa

Activity > 800 U/mg [Activity is determined by measuring the rate of fluorescence enhancement after

His6-fcTG2-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, factor = 0.4, assay volume = 1 ml)].

Application fcTG2 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-fcTG2 may also be used for immunoprecipitation.

Appearance white lyophilized solid.

Storage Storage for several months is possible at \leq - 20°C.

Delivery is possible at ambient temperature

Reagents The Transglutaminase is lyophilized from 10 mM sodium phosphate buffer, pH 8,

150 mM NaCl. Sample contains maltodextrin.

His₆-fcTG2 is a Ca²⁺-dependent enzyme.

Reconstitution Add the volume of H₂O 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.

Activation Add 10 mM Ca²⁺ to activate His₆-fcTG2.

Storage Store at -20 °C in working aliquots. Repeated freezing and thawing is not recommended.

Delivery is possible at ambient temperature

Related products A102 TG2-Assay Substance, Abz-APE(CAD-DNP)QEA-OH

F002 Tissue Transglutaminase Assay Kit

T101 1,3,4,5-Tetramethyl-2[(2-oxo-propyl)thio] imidazolium chloride

Z006 Z-DON-Val-Pro-Leu-OMe

Release date 23 November 2022

NOTE INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR

DIAGNOSTIC APPLICATIONS.