

Endotoxin free Transglutaminase 2 from Human tissue, Recombinant

Cat. No. NATE-1729

Lot. No. (See product label)

Introduction

Description This enzyme belongs to the family of transferases, specifically those transferring phosphorus-containing

groups (phosphotransferases) with a phosphate group as acceptor.

Applications Transglutaminase 2 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. Transglutaminase 2 may also be used for immunoprecipitation. This product is suitable for cell

culture use.

Synonyms transglutaminase; EC 2.3.2.13; 80146-85-6; transglutaminase; Factor XIIIa; fibrinoligase; fibrin stabilizing

factor; glutaminylpeptide γ -glutamyltransferase; polyamine transglutaminase; tissue transglutaminase; R-glutaminyl-peptide:amine γ -glutamyl transferase; protein-glutamine γ -glutamyltransferase; TG1

Product Information

Species Human

Source Insect cells

Appearance Liquid

Form The transglutaminase is supplied in 10 mM Tris-HCl pH 7.2, 150 mM NaCl, 0.5 mM EDTA, 0.5 mM DTT,

10% Glycerol.

EC Number EC 2.3.2.13

CAS No. 80146-85-6

Molecular Weight 78 kDa

Activity

> 1500 U/mg [Activity is determined by measuring the rate of fluorescence enhancement after

transglutaminase-catalyzed monodansylcadaverine-incorporation into N,N-dimethylated casein according

to Lorand et al., Anal. Biochem. 44 (221-231).

Activators Add 10 mM Ca2+ to activate transglutaminase.

Endotoxin

Level

 $\label{eq:endotoxin} \textit{Endotoxin level:} < 4.5 \; \textit{EU/mg}, \; \textit{sterile filtered using 0.2 micron filter} \; \textit{[Bacterial endotoxin level was below the content of the cont$

 $\ determined \ at \ SGS \ Institute \ Fresenius \ using \ the \ kinetic \ - \ turbidimetric \ method].$

Unit Definition 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)].

Usage and Packaging

Package 250 μg; 1mg

Storage and Shipping Information

Store working aliquots at < - 20°C Avoid repeated freezing and thawing

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