

Transglutaminase from Microbial, Recombinant

Cat. No. NATE-3650

Lot. No. (See product label)

Introduction

Description

Transglutaminases are a family of enzymes that catalyze the posttranslational modification of proteins by inserting an isopeptide bond within or between polypeptide chains. These enzymes catalyze the acyl transfer reaction between the γ -carboxyamides of peptide-bound glutamine residues and a variety of primary amines, particularly the ϵ -amino group of lysine. The resulting crosslink is of great significance, since it is highly stable and also resistant to mechanical and proteolytic degradation.

Product Information

Source

Recombinantly produced in *E. coli*.

Form

White lyophilized solid.

Molecular Weight

38,333 Da

Purity

> 95 % (SDS-PAGE)

Activity

>25 U/mg [One unit will catalyze the formation of 1 μ mole of hydroxamate per min from Z-Gln-Gly-OH and hydroxylamine at pH 6.0 at 37°C]

Storage and Shipping Information

Storage

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