

## Transglutaminase from Guinea pig, Recombinant

Cat. No. NATE-1721

Lot. No. (See product label)

### Introduction

**Description** Catalyzes acyl transfer reactions from glutamine residues in proteins or peptides to primary amines, e. g. the formation of  $\epsilon$ -( $\gamma$ -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.

### Product Information

<b>Species</b>	Guinea pig liver
<b>Source</b>	E.coli
<b>Form</b>	Lyophilized from 50mM NaH <sub>2</sub> PO <sub>4</sub> , pH 8.0, containing 150mM sodium chloride. Sample contains maltodextrin.
<b>EC Number</b>	EC 2.3.2.13
<b>CAS No.</b>	80146-85-6
<b>Molecular Weight</b>	~77kDa
<b>Purity</b>	>95% (SDS-PAGE)
<b>Activity</b>	>8 U/mg
<b>Unit Definition</b>	One unit is defined as the formation of 1 $\mu$ mol hydroxamate per minute from Z-Gln-Gly-OH and hydroxylamine at pH 6.0 at 37°C containing 10mM CaCl <sub>2</sub> (L-Glutamic acid $\gamma$ -monohydroxamate is the standard)].
<b>Notes</b>	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.

### Usage and Packaging

**Reconstitution** Reconstitute with water. Rotate vial gently until solid dissolves.

### Storage and Shipping Information

**Storage** Store at -20°C. After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.