Transglutaminase 7 (human) (recombinant) (His)

Human recombinant His_6-TG7 is based on the TGM7-gene on plasmid pCRII-hTGz cl.14, corrected by the insertion of a C at position 1169. It is N-terminally fused to a hexahistidine-tag resulting in the encoded N-terminal amino acid sequence MHHHHHHDQVATLR…. His_6-TG7 is produced in *E. coli* and purified by ion metal chelating chromatography to more than 90 % purity. The enzyme is Ca^{2+}-dependent .

Ordering Information

Order Online »

NZY-T011-250	250µg

Manuals, SDS & CofA

View Online »

Handling & Storage

Handling	After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Activity	≥200 U/mg [Activity is determined by measuring the rate of fluorescence enhancement after human recombinant His6-TG7-catalyzed monodansylcadaverine-incorporation into N,N-dimethylated casein according to L. Lorand et al., Anal. Biochem. 44, 221 (1971)].Activation: Add 10mM Ca2+ to activate His6-TG7.
Alternative Name	TG7
Appearance	White lyophilized solid.
Application Notes	Human recombinant His_6-TG7 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. The enzyme may also be used for
MW	~81kDa
Purity	≥80% (SDS-PAGE)
Reconstitution	Add the desired volume of water to the vial of lyophilized powder.
Source	Produced in *E. coli.*
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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