Transglutaminase 1 (human) (recombinant) (His)

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. It may also be used for immunoprecipitation.

Ordering Information

Order Online »

NZY-T035-150	150µg

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	Add 10mM Ca2+ to activate TG1.> 8,000 U/mg [Activity is determined by measuring the rate of fluorescence enhancement after His6-rhTG1-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; λex =332nm, λem =500nm; band filter =5nm; detector strength =600V; temperature =37°C, assay volume =1ml)].
Alternative Name	Keratinocyte Transglutaminase 1, TG1, TGase 1, Keratinocyte protein-glutamine-γ-glutamyltransferase
Appearance	White solid.
Formulation	Lyophilized from 50mM Tris-HCl, pH 8.0, containing 10mM Glutathione.
MW	~90kDa
Purity	≥90% (SDS-PAGE)
Purity Detail	Purified by Ni2+-affinity chromatography.
Reconstitution	Reconstitute with water. Rotate vial gently until solid dissolves. After reconstitution the solution should be cooled on ice for short term storage.
Sequence	Based on the TGM1-allele from I.M.A.G.E.-clone IRAKp961M1628 isolated from human skin squamous cell carcinoma. It is N-terminally fused to His_6-tag.
Source	Produced in insect cells.

Technical Info / Product Notes For the Original Manufacturer's data sheet please click here.

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