



# Human Tissue Transglutaminase [His] (DAG614)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Species	Human
Purity	>95% as determined by SDS-PAGE
Conjugate	His
Applications	WB, ELISA
Molecular Weight	78 kDa
Format	Liquid
Concentration	Batch dependent - please inquire should you have specific requirements
Size	50 µg, 1 mg
Buffer	Ionic strength around 150 mM, neutral to slightly alkaline pH and 20 % glycerol as cryoprotective agent.
Preservative	None
Storage	2-8°C short term, -20°C long term

## BACKGROUND

Introduction	Tissue transglutaminase (abbreviated as TG2 or tTG) is an enzyme (EC 2.3.2.13) of the transglutaminase family. Like other transglutaminases, it crosslinks proteins between an ε-amino group of a lysine residue and a γ-carboxamide group of glutamine residue, creating an inter- or intramolecular bond that is highly resistant to proteolysis (protein degradation). It is
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particularly notable for being the autoantigen in coeliac disease, but is also known to play a role in apoptosis, cellular differentiation, and matrix stabilisation.

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<b>Keywords</b>	Tissue transglutaminase; Celiac disease
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