



Enzyme protein–glutamine γ -glutamyltransferase

Systematic name Protein–glutamine: amine γ -glutamyltransferase

IUBMB nomenclature protein–glutamine γ -glutamyltransferase

CAS number None

IUBMB number EC 2.3.2.13

EC number None

Synonyms

- transglutaminase
- Factor XIIIa
- fibrinolygase

Properties Protein–glutamine γ -glutamyltransferases catalyse the amide-transferase reaction between the γ -glutamyl group of glutamine residues and the ϵ -amino group of lysine residues in proteins, resulting in intra-and intermolecular cross-linkings of proteins. In the absence of amino substrates, transglutaminases catalyse the deamidation of glutamyl residues involving water as an acyl acceptor.