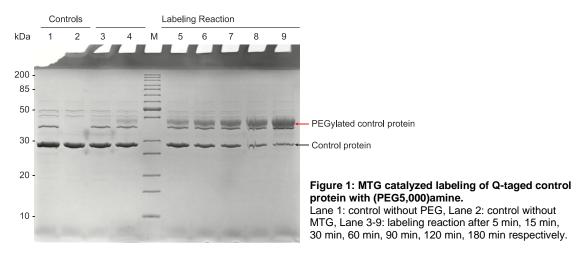
Product Data Sheet

Product number	P011
Revision number	RN5.0



Product Name	(PEG5,000)amine, polydisperse
Quantity	10 mg
Application	PEGylated amine donor substrate for transglutaminases
Molecular Weight	~ 5000
Chemical Structure	$H_3C O O NH_2$
Purity by HPLC	>95 % (HPLC-ELSD)
Solubility	50 mg/ml in 0.01 % (v/v) HCl
Reconstitution	e.g. for the example application given below, 20 mg (PEG5,000)amine were dissolved in 1 mL buffer (20 mM NaOAc, pH6) to obtain a 4 mM stock solution
Appearance	White powder
Storage	Store at -20°C, desiccate
Application	Protein labeling
	A 28 kDa-protein (component CQ from Substrate Finder Kit L001) is labeled with

(PEG5,000)amine using MTG (microbial transglutaminase) according to a modified protocol of the Substrate Finder Kit (L001). The result shown in Figure 1 reveals the increase in molecular weight of the protein (black arrow) up to the covalent incorporation of (PEG5,000)amine (red arrow).



Please see also MTG catalyzed PEGylation using (PEG1,088)amine (P010), Z-Gln-Gly-(PEG1,088) (C092) or Z-GIn-Gly-(PEG5,000) (C093) as substrate in the corresponding product data sheets.

Product Data Sheet

P011

Product number

Revision number	RN5.0	
Related products	 T001 Bacterial transglutaminase highly purified P010 (PEG1,088)amine, polydisperse C092 Z-GIn-Gly-(PEG1,088), monodisperse C093 Z-GIn-Gly-(PEG5,000), polydisperse 	
	L001 Substrate Finder Kit L103 PEG5,000 TGase Protein Q-Labeling Kit	
Reference(s)	Case, A. <i>et al. Biochemistry</i> 2007 , <i>4</i> 6, 1106. Mero, A. <i>et al. J. Controlled Release</i> 2011 , <i>154</i> , 27.	
Release date	22 December 2021	
NOTE	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.	

zeara