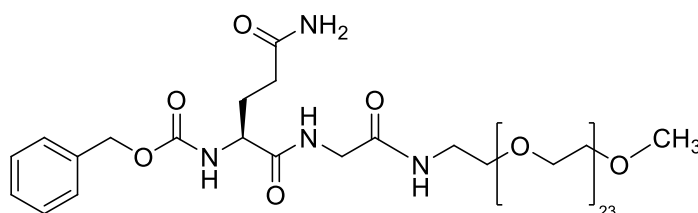


# Product Data Sheet



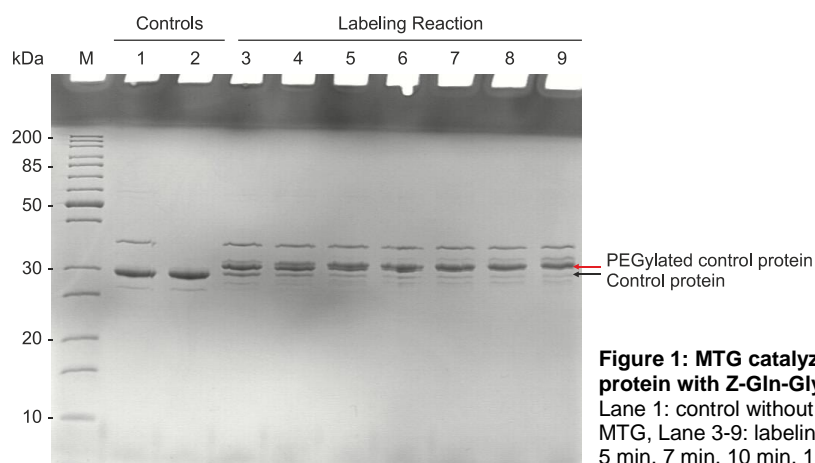
Product number **C092**  
Revision number **RN4.0**

**Product Name** Z-Gln-Gly-(PEG1,088), monodisperse  
**Quantity** 25 mg  
**Application** PEGylated glutamine donor substrate for transglutaminases  
**Molecular Formula** C<sub>64</sub>H<sub>118</sub>N<sub>4</sub>O<sub>29</sub>  
**Molecular Weight** 1407.63  
**Chemical Structure**



**Purity by HPLC** >90 % (214 nm)  
**Reconstitution** e.g. for the example application given below, 5.63 mg Z-Gln-Gly-(PEG1,088) were dissolved in 1 mL buffer (20 mM NaOAc, pH6) to obtain a 4 mM stock solution  
**Appearance** Off-white solid  
**Storage** Store at -20°C, desiccate  
**Application** Protein labeling

A 29 kDa-protein (component CK from Substrate Finder Kit L001) is labeled with Z-Gln-Gly-(PEG1,088) 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 Z-Gln-Gly-(PEG1,088) (red arrow).



**Figure 1: MTG catalyzed labeling of K-tagged control protein with Z-Gln-Gly-(PEG1,088).**  
Lane 1: control without PEG, Lane 2: control without MTG, Lane 3-9: labeling reaction after 1 min, 2 min, 5 min, 7 min, 10 min, 15 min, 30 min respectively.

Please see also MTG catalyzed PEGylation using (PEG1,088)amine (P010), (PEG5,000)amine (P011), or Z-Gln-Gly-(PEG5,000) (C093) as substrate in the corresponding product data sheets.

# Product Data Sheet



Product number **C092**  
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**Related products**

T001	Bacterial transglutaminase highly purified
P010	(PEG1,088)amine, polydisperse
P011	(PEG5,000)amine, polydisperse
C093	Z-Gln-Gly-(PEG5,000), polydisperse
L001	Substrate Finder Kit
L202	PEG1,088 TGase Protein K-Labeling Kit

**Reference(s)**

Case, A. *et al. Biochemistry* **2007**, *46*, 1106.  
Mero, A. *et al. J. Controlled Release* **2011**, *154*, 27.

**Release date** 02 December 2021

**NOTE** INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.