## **Product Data Sheet**

Product number C093
Revision number RN4.0



Product Name Z-Gln-Gly-(PEG5,000), polydisperse

Quantity 25 mg

**Application** PEGylated glutamine donor substrate for transglutaminases

Molecular Weight ~ 5000

**Chemical Structure** 

**Purity by HPLC** >90 % (214 nm)

Solubility High soluble in water

**Reconstitution** e.g. for the example application given below, 20 mg Z-Gln-Gly-(PEG5,000) were dissolved in

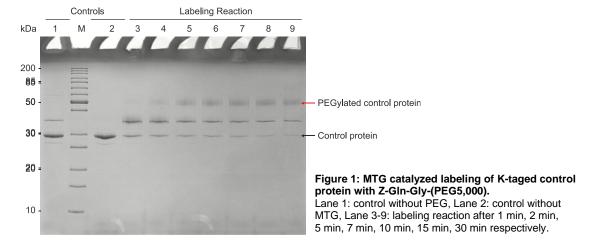
1 mL buffer (20 mM NaOAc, pH6) to obtain a 4 mM stock solution

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-(PEG5,000) 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-(PEG5,000) (red arrow).



Please see also MTG catalyzed PEGylation using (PEG1,088)amine (P010), (PEG5,000)amine (P011), or Z-Gln-Gly-(PEG1,088) (C092) as substrate in the corresponding product data sheets.

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Related products T001 Bacterial transglutaminase highly purified

P010 (PEG1,088)amine, polydisperse P011 (PEG5,000)amine, polydisperse C092 Z-Gln-Gly-(PEG1,088), polydisperse

L001 Substrate Finder Kit

L203 PEG5,000 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.