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## Product Data Sheet

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Product Name: DBCO-PEG4-TAMRA

Cat. No.: GC66418

### Chemical Properties

Cas. No. 1895849-41-8

Formula  $C_{54}H_{57}N_5O_{10}$  M.Wt 936.06

Solubility DMSO : 50 mg/mL (53.42 mM; Need ultrasonic) Storage Store at -20°C, protect from light, stored under nitrogen

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

DBCO-PEG4-TAMRA is a PEG-based **TARMA dye** and contains a DBCO group, which enables Click Chemistry. The TAMRA dye is a dye widely used in oligonucleotide labeling and automated DNA sequencing applications.

Click chemistry refers to a group of reactions that are fast, simple to use, easy to purify, versatile, regiospecific, and give high product yields. Click chemistry reaction is suitable for cell marker and low concentration reaction with low toxicity.

DBCO reacts with azide functionalized compounds or biomolecules without catalyst to form a stable triazole linkage, which is an ideal alternative to copper intolerant applications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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