

Product Data Sheet

Product Name: DSPE-PEG2000-tetrazine

Cat. No.: GC79692

Chemical Properties

Cas. No. 3101670-39-4

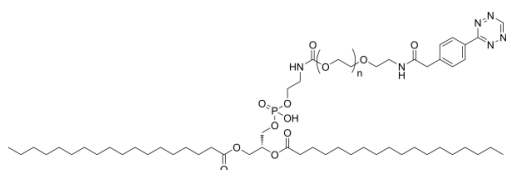
Formula M.Wt 2000

Solubility Storage Store at -20°C

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

DSPE-PEG2000-tetrazine is a synthetic phospholipid modified with PEG2000 and tetrazine moieties. DSPE-PEG2000-tetrazine gains improved steric stability via PEGylation. DSPE-PEG2000-tetrazine enables bioorthogonal click chemistry through its tetrazine segment, which selectively reacts with trans-cyclooctene (TCO) under complex biological environments. DSPE-PEG2000-tetrazine can be applied for researches related to click chemistry [1].

In Vitro, DSPE-PEG2000-tetrazine enables successful conjugation of Rhodamine-CRM197-TCO to

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

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PLGA/lipid hybrid nanoparticles via TCO-tetrazine click chemistry^[1].

References:

[1]. Hu H, et al. Conjugation of Multiple Proteins Onto the Surface of PLGA/Lipid Hybrid Nanoparticles. J Biomed Mater Res A. 2025;113(1):e37807.

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