

Product Data Sheet

Product Name: DBCO-PEG2-amine

Cat. No.: GC66590

Chemical Properties

Cas. No. 2250216-96-5

Formula $C_{25}H_{29}N_3O_4$

M.Wt 435.52

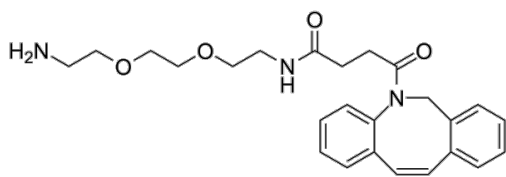
Solubility

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

DBCO-PEG2-amine is a click chemistry reagent [1]. DBCO-PEG2-amine has a strain-promoting alkyne group (DBCO), a hydrophilic polyethylene glycol (PEG2) chain, and a reactive amino terminus [1]. DBCO-PEG2-amine efficiently undergoes click reactions (SPAAC) with azide-modified molecules without the need for a copper catalyst [2]. DBCO-PEG2-amine is used in cell labeling, drug delivery, bioimaging, and other fields, and has good biocompatibility and reaction selectivity [3].

References:

[1]. An S, Fu L. Small-molecule PROTACs: An emerging and promising approach for the

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

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development of targeted therapy drugs. EBioMedicine. 2018 Oct 1; 36: 553-562.

[2]. Pringle TA, Knight JC. The effects of buffer, pH, and temperature upon SPAAC reaction rates. Organic & Biomolecular Chemistry. 2025; 23(10): 2432-2438.

[3]. Baker CJ, Smith SA, Morrissey JH. Diversification of polyphosphate end-labeling via bridging molecules. PLoS One. 2020 Aug 21; 15(8): e0237849.

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