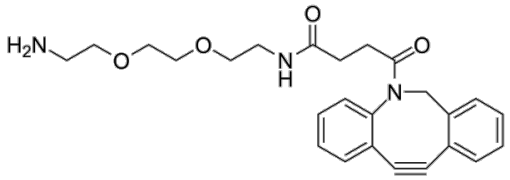
Product Data Sheet

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

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.

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