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**Product Data Sheet**

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Product Name: DBCO-NHS ester 3

Cat. No.: GC66815

**Chemical Properties**

Cas. No. 1393350-27-0

Formula  $C_{24}H_{20}N_2O_5$  M.Wt 416.43

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-NHS ester 3 (Compound 12) is a cleavable linker that is used for making antibody-drug conjugate (ADC). DBCO-NHS ester 3 is a derivative of Dibenzylcyclooctyne (DBCO) obtained by activation of N-hydroxysuccinimide by the carboxylic acid moiety of both methyl-oxanorbornadiene (MeOND) and dibenzoazacyclooctyne (DIBAC)<sup>[1][2]</sup>.

[1]. Silvie A. Meeuwissen, et al. Copper-free click chemistry on polymersomes: pre- vs. post-self-assembly functionalization. *Polymer Chemistry*. 2012, 3: 1783-1795.

[2]. Tang F, et al. Chemoenzymatic synthesis of glycoengineered IgG antibodies and glycosite-specific antibody-drug conjugates. *Nat Protoc*. 2017 Aug;12(8):1702-1721.

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

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