

**Product Name:** DBCO-NHS

**Catalog No.:** 7921

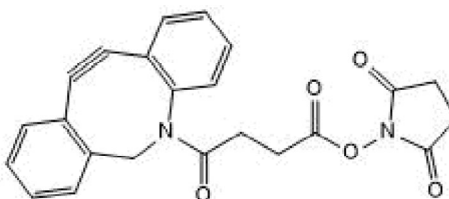
**Batch No.:** 1

CAS Number: 1353016-71-3

IUPAC Name: 2,5-Dioxo-1-pyrrolidinyl-11,12-didehydro-γ-oxodibenz[*b,f*]azocine-5(6*H*)-butanoate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>23</sub>H<sub>18</sub>N<sub>2</sub>O<sub>5</sub>  
**Batch Molecular Weight:** 402.4  
**Physical Appearance:** White solid  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 97.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number:	1353016-71-3			
IUPAC Name:	2,5-Dioxo-1-pyrrolidiny-11,12-didehydro-γ-oxodibenz[ <i>b,f</i> ]azocine-5(6 <i>H</i> )-butanoate			

**Description:**

DBCO-NHS is an amine reactive and azide reactive building block. It can be used for copper-free click cycloaddition reactions.

**Physical and Chemical Properties:**

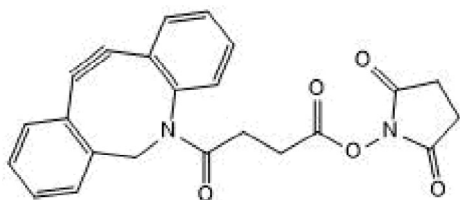
Batch Molecular Formula: C<sub>23</sub>H<sub>18</sub>N<sub>2</sub>O<sub>5</sub>

Batch Molecular Weight: 402.4

Physical Appearance: White solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Ge et al (2022)** Chemoselective bioconjugation of amyloidogenic protein antigens to PEGylated microspheres enables detection of α-Synuclein autoantibodies in human plasma. *Bioconjug.Chem.* **33** 301. PMID: 35020392.

**Liu et al (2012)** Strain-promoted "click" modification of a mesoporous metal-organic framework. *J.Am.Chem.Soc.* **134** 18886. PMID: 23113571.

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