

Product Name: Psoralen-triethylene glycol azide

Catalog No.: 6862

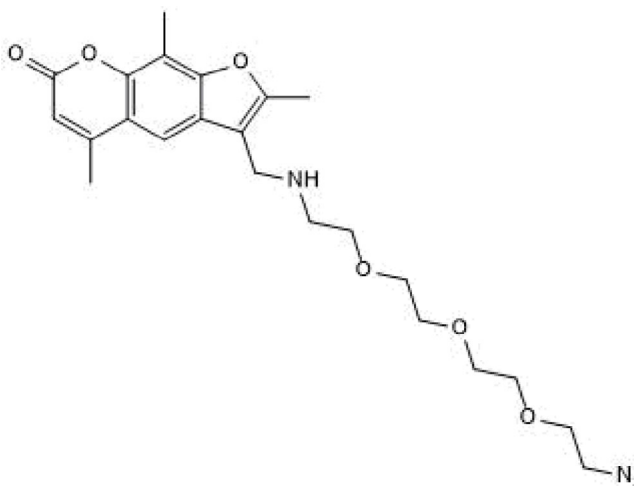
Batch No.: 2

CAS Number: 1352815-11-2

IUPAC Name: 3-(13-Azido-5,8,11-trioxa-2-azatridec-1-yl)-2,5,9-trimethyl-7H-furo[3,2-g][1]benzopyran-7-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₃₀N₄O₆
Batch Molecular Weight: 458.52
Physical Appearance: Yellow oil
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H 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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Description:

Psoralen TEG Azide is used to probe RNA structure and conformation in live cells, using the cross-linking of matched RNAs and deep sequencing or COMRADES method. Psoralen crosslinks the RNA and the azide enables subsequent click reaction with biotin. The COMRADES method has been used to determine the architecture of the Zika virus RNA genome inside cells, and identified multiple site-specific interactions with human noncoding RNAs. It has also been used to map RNA-RNA interactions along the SARS-CoV-2 genome and subgenomes inside cells. Psoralen TEG Azide is cell permeable. For detailed methods please see references section below.

Physical and Chemical Properties:

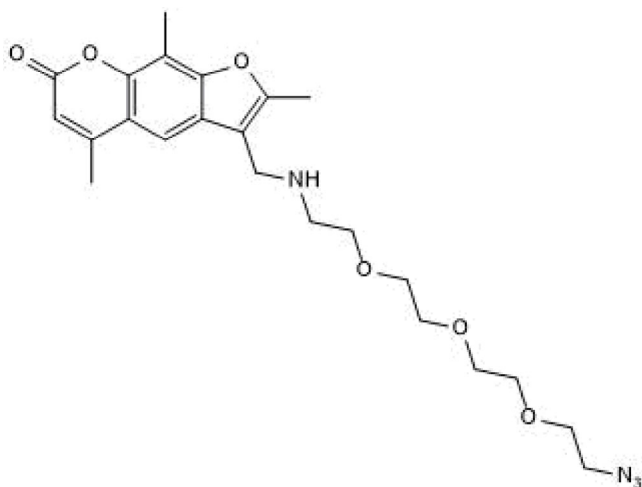
Batch Molecular Formula: C₂₃H₃₀N₄O₆

Batch Molecular Weight: 458.52

Physical Appearance: Yellow oil

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

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:

Ziv *et al* (2020) The short- and long-range RNA-RNA interactome of SARS-CoV-2. *Mol. Cell* **80** 1067. PMID: 33259809.

Ziv *et al* (2018) COMRADES determines *in vivo* RNA structures and interactions. *Nat. Methods* **15** 785. PMID: 30202058.

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