

Product Name: BRD PHOTAC-I-3

Catalog No.: 7319

Batch No.: 1

CAS Number: 2370997-94-5

IUPAC Name: 2-((S)-4-(4-Chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f]-[1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)-N-(4-(2-(4-((E)-(2-(2,6-dioxopiperidin-3-yl)-1-oxoisindolin-4-yl)diazanyl)-2,6-dimethoxyphenoxy)acetamido)butyl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₆H₄₇ClN₁₀O₈S·½H₂O

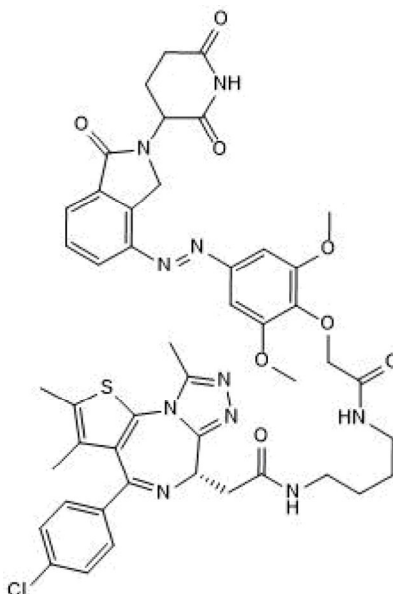
Batch Molecular Weight: 944.46

Physical Appearance: Orange solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.5	5.12	14.83
Found	58.27	5.09	14.61

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

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Description:

BRD PHOTAC-I-3 is a photoswitchable BET bromodomain degrader (PHOTAC, PHOtochemically TArgeting Chimera). BRD PHOTAC-I-3 comprises a ligand for an E3 ligase, a photoswitch, and the BET bromodomain targeting ligand (+)-JQ1 (Cat. No. 4499). Exhibits cytotoxicity and degrades BRD4, BRD3 and to a lesser extent BRD2 in lymphoblast cells upon irradiation with 390 nm light, but not in the dark. BRD2 antibodies validated for Western Blot also available: Catalog # NBP1-30475 and NBP2-75422. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

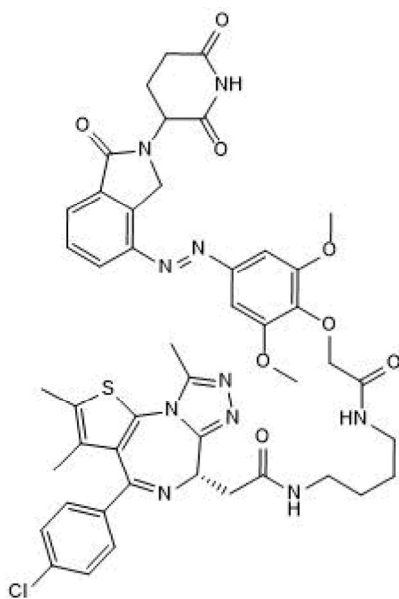
Batch Molecular Formula: C₄₆H₄₇ClN₁₀O₈S.½H₂O

Batch Molecular Weight: 944.46

Physical Appearance: Orange solid

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 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.

Licensing Information:

Sold under license from New York University

References:

Reynders *et al* (2020) PHOTACs enable optical control of protein degradation. *Sci.Adv.* **6** eaay5064. PMID: 32128406.

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