

Product Name: BDY FL Thalidomide

Catalog No.: 7633

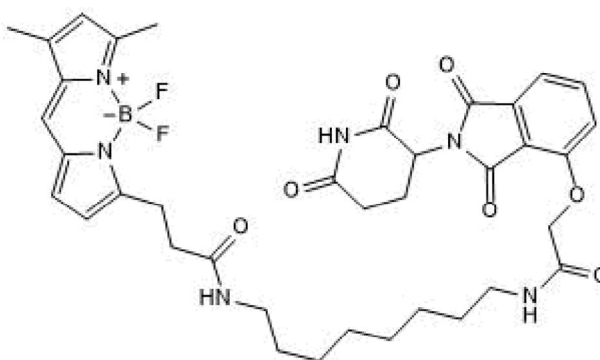
Batch No.: 1

CAS Number: 2740620-18-0

IUPAC Name: 3-(5,5-Difluoro-7,9-dimethyl-5*H*-5λ⁴,6λ⁴-dipyrrolo[1,2-*c*:2',1'-*f*][1,3,2]diazaborinin-3-yl)-*N*-(8-(2-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)oxy)acetamido)octyl)propanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₇ H ₄₃ BF ₂ N ₆ O ₇
Batch Molecular Weight:	732.59
Physical Appearance:	Red solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.3% purity at 502 nm
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{max}:	505 nm (EtOH)
λ_{em}:	512 nm (EtOH)

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

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CAS Number: 2740620-18-0

IUPAC Name: 3-(5,5-Difluoro-7,9-dimethyl-5H-5λ⁴,6λ⁴-dipyrrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-3-yl)-N-(8-(2-((2-(2,6-dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)oxy)acetamido)octyl)propanamide

Description:

BDY FL Thalidomide is a high-affinity fluorescent probe ($K_d = 3.6$ nM). It can be used in time-resolved fluorescence resonance energy-transfer (TR-FRET) cereblon binding assay for PROTAC® Degradation development. This assay is highly sensitive, selective, and stable. Excitation/emission maxima $\lambda \sim 502/510$ nm. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

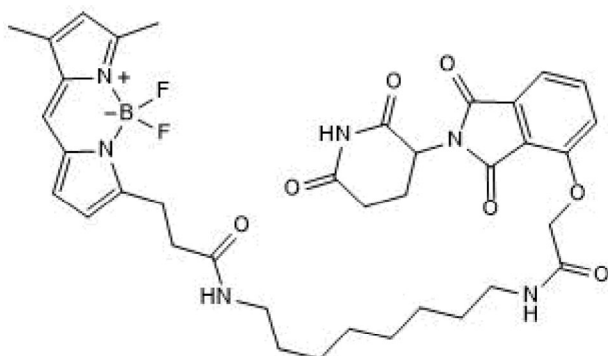
Batch Molecular Formula: C₃₇H₄₃BF₂N₆O₇

Batch Molecular Weight: 732.59

Physical Appearance: Red solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Lin *et al* (2021) General stepwise approach to optimize a TR-FRET assay for characterizing the BRD/PROTAC/CRBN ternary complex. ACS Pharmacol. Transl. Sci. **4** 941. PMID: 33860212.

Lin *et al* (2020) Development of BODIPY FL Thalidomide as a high-affinity fluorescent probe for cereblon in a Time-Resolved Fluorescence Resonance Energy Transfer assay. Bioconjug. Chem. **31** 2564. PMID: 33070611.

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 10 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.

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