Certificate of Analysis

Product Name: **BDY FL VH032** **Catalog No.: 7483** **Batch No.: 2**

CAS Number: 2770675-66-4

IUPAC Name: (2*S*,4*R*)-1-((*S*)-2-(tert-Butyl)-21-(5,5-difluoro-7,9-dimethyl-5*H*-5λ^4,6λ^4-dipyrrolo[1,2-*c*:2',1'-*f*][1,3,2]diazaborinin-3-yl)-4,19-dioxo-6,9,12,15-tetraoxa-3,18-diazahenicosanoyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{46}H_{62}BF_2N_7O_9S$

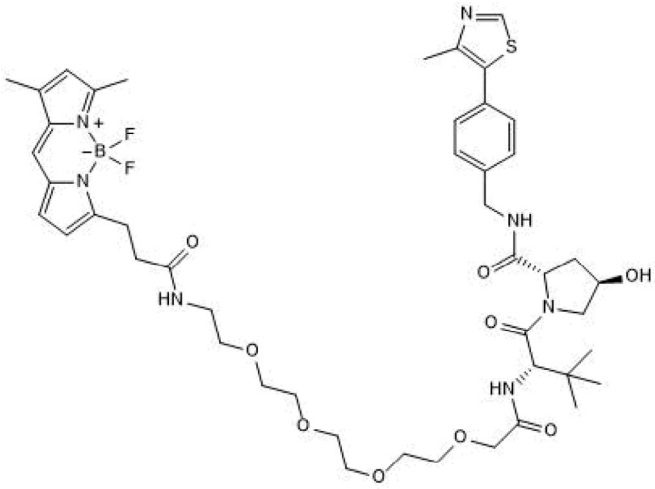
Batch Molecular Weight: 937.91

Physical Appearance: Orange solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity at 503 nm

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 505 nm (PBS)

λ_{ex}: 503 nm (PBS)

λ_{em}: 513 nm (PBS)

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Description:

BDY FL VH032 is a high-affinity VHL fluorescent probe (K_d = 3.01 nM) with application in time-resolved fluorescence resonance energy-transfer (TR-FRET) assays for high-throughput identification and characterization of VHL ligands. BDY FL VH032 consists of a derivative of von Hippel-Lindau (VHL) ligand VH 032 (Cat. No. 6911) and a fluorophore BDY FL (Cat. No. 5465) (with excitation peak at 504 nm and emission peak at 520 nm), joined by a polyethylene glycol (PEG) 4 linker. The BDY FL VH032 VHL TR-FRET signal is stable through the 90 - 300 min incubation time, and the TR-FRET binding assay is sensitive, selective and resistant to assay interfer... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

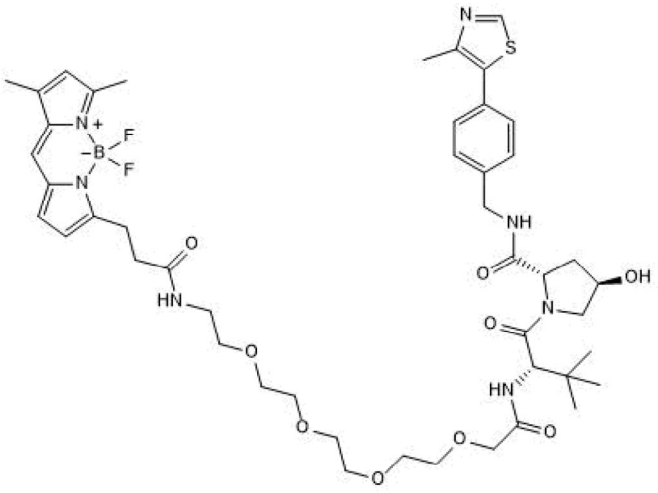
Batch Molecular Formula: $C_{46}H_{62}BF_2N_7O_9S$

Batch Molecular Weight: 937.91

Physical Appearance: Orange solid

Minimum Purity: ≥95%

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 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.

Licensing Information:

Sold under license from St. Jude Children's Research Hospital

References:

Lin *et al* (2020) Development of BODIPY FL VH032 as a high-affinity and selective von Hippel-Lindau E3 ligase. ACS Omega ***6*** 680. PMID: 33458521.