bio-techne
TOCRIS

Print Date: Apr 24th 2025

Certificate of Analysis

www.tocris.com

Product Name: **BI 2852 FL** **Catalog No.: 8110** **Batch No.: 1**

CAS Number: 2762758-95-0

IUPAC Name: *N*-(15-(5,5-Difluoro-7-(1*H*-pyrrol-2-yl)-5*H*-5λ^4,6λ^4-dipyrrolo[1,2-*c*:2',1'-*f*][1,3,2]diazaborinin-3-yl)-13-oxo-3,6,9-trioxa-12-azapentadecyl)-5-(2-((6-(((((3-(6-hydroxy-3-oxoisoindolin-1-yl)-1*H*-indol-2-yl)methyl)amino)methyl)-1*H*-indol-1-yl)methyl)-1*H*-imidazol-1-yl)pentanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{59}H_{64}BF_2N_{11}O_7$

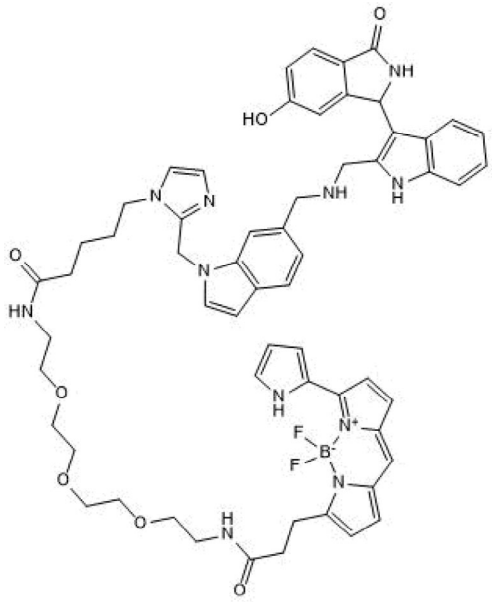
Batch Molecular Weight: 1088.04

Physical Appearance: Purple solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.4% purity at 578 nm

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 580 nm (Ethanol + 0.1% TFA)

λ_{ex}: 581 nm (Ethanol + 0.1% TFA)

λ_{em}: 593 nm (Ethanol + 0.1% TFA)

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: **BI 2852 FL** **Catalog No.: 8110** **Batch No.: 1**

CAS Number: 2762758-95-0

IUPAC Name: *N*-(15-(5,5-Difluoro-7-(1*H*-pyrrol-2-yl)-5*H*-5λ^4,6λ^4-dipyrrolo[1,2-*c*:2',1'-*f*][1,3,2]diazaborinin-3-yl)-13-oxo-3,6,9-trioxa-12-azapentadecyl)-5-(2-((6-((((3-(6-hydroxy-3-oxoisoindolin-1-yl)-1*H*-indol-2-yl)methyl)amino)methyl)-1*H*-indol-1-yl)methyl)-1*H*-imidazol-1-yl)pentanamide

Description:

BI 2852 FL is a cell-permeable pan-RAS BRET fluorescent probe. BI 2852 FL is synthesized by conjugating a fluorophore to a derivative of the reversible SI/II-P inhibitor BI 2852. BI 2852 FL is used in competitive bioluminescence resonance energy transfer (BRET) format to quantify SII-P engagement to multimeric RAS complexes in live cells.

Physical and Chemical Properties:

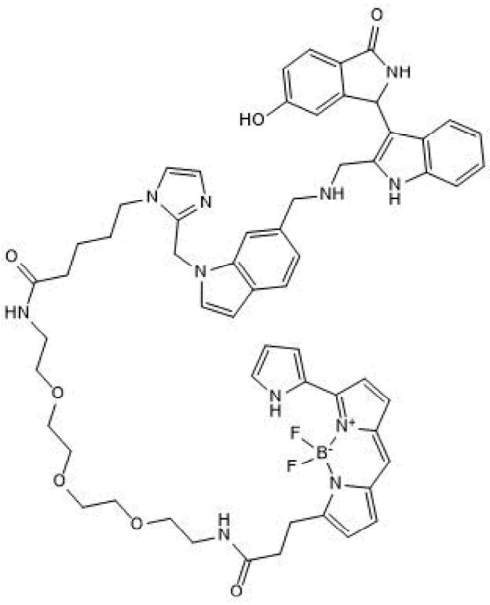
Batch Molecular Formula: $C_{59}H_{64}BF_2N_{11}O_7$

Batch Molecular Weight: 1088.04

Physical Appearance: Purple 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.

References:

Vasta *et al* (2022) KRAS is vulnerable to reversible switch-II pocket engagement in cells. Nat.Chem.Biol. ***18*** 596. PMID: 35314814.