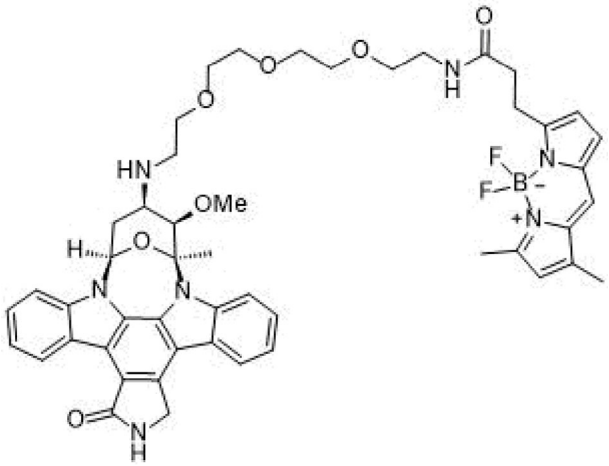
Certificate of Analysis

Product Name: **BDY FL Staurosporine** **Catalog No.: 7985** **Batch No.: 1**

CAS Number: 2411845-57-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{49}H_{54}BF_2N_7O_7$
Batch Molecular Weight:	901.82
Physical Appearance:	Orange solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 95.4% purity at 504 nm
^{1}H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{max}:	505 nm (Ethanol)
λ_{ex}:	506 nm (Ethanol)
λ_{em}:	513 nm (Ethanol)

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Product Name: **BDY FL Staurosporine** **Catalog No.: 7985** **1**

CAS Number: 2411845-57-1

Description:

BDY FL Staurosporine is a fluorescent probe targeting kinases. It can be paired with antibodies labelled with TR-FRET donors such as CoraFluor™ 1 (Cat. No. 7920) for high throughput binding and protein quantification assays. BDY FL Staurosporine shows high specificity for tyrosine kinase (TK) and tyrosine kinase-like (TKL) family kinases. Excitation and emission maxima (λ) are 514 and 516 nm, respectively; quantum yield = 0.11; extinction coefficient = 35,000 $M^{-1}cm^{-1}$.

Physical and Chemical Properties:

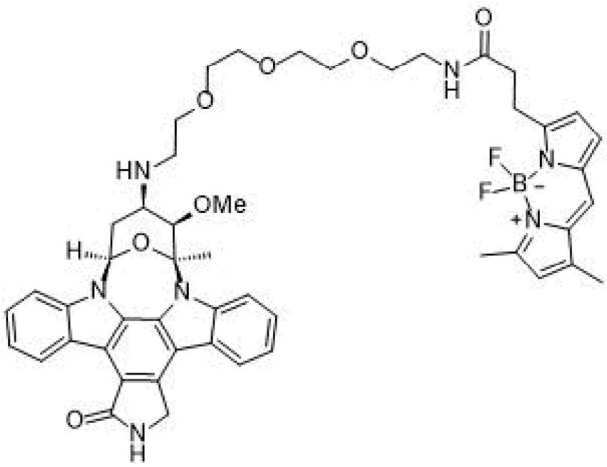
Batch Molecular Formula: $C_{49}H_{54}BF_2N_7O_7$

Batch Molecular Weight: 901.82

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

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Hirozane *et al* (2019) Structure-based rational design of staurosporine-based fluorescent probe with broad-ranging kinase affinity for kinase panel application. Bioorg.Med.Chem.Lett. ***29*** 126641. PMID: 31526603.

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