

Product Name: JQ1-FITC

Catalog No.: 7722

Batch No.: 1

IUPAC Name: (S)-5-(3-(1-(4-(4-Chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)-2-oxo-7,10,13-trioxa-3-azahexadecan-16-yl)thioureido)-2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoic acid trifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₀H₅₀ClN₇O₉S₂.CF₃CO₂H.

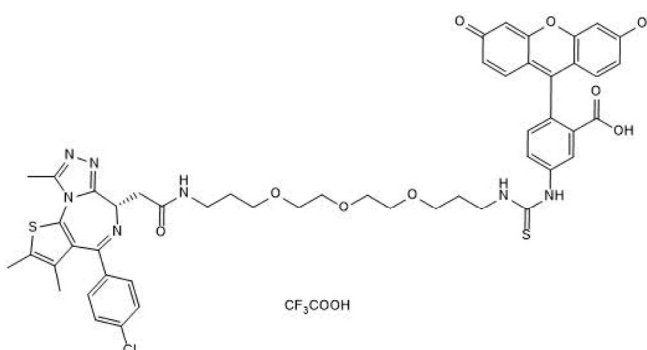
Batch Molecular Weight: 1106.58

Physical Appearance: Orange solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 497 nm (0.01M PBS pH 7.4)

λ_{em}: 521 nm (0.01M PBS pH 7.4)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.44	4.65	8.86
Found	57.06	4.97	9.2

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

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Description:

JQ1-FITC is a fluorescent BET bromodomain probe. It binds with high affinity to BRD4(BD1) and BRD4(BD2) ($K_{D,app}$ = 6.5 nM and 5.8 nM, respectively). Suitable for use in TR-FRET. Excitation and emission maxima (λ) are 495 nm and 525 nm, respectively.

Physical and Chemical Properties:

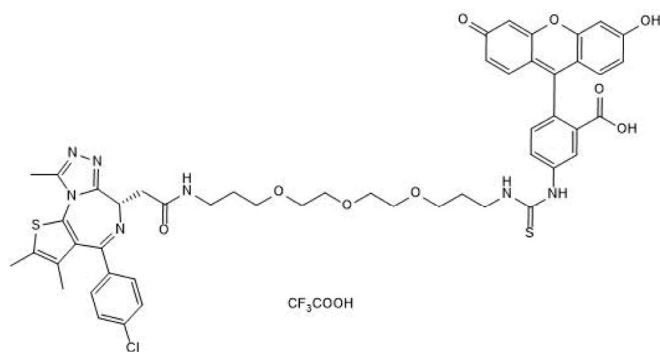
Batch Molecular Formula: $C_{50}H_{50}ClN_7O_9S_2.CF_3CO_2H$.

Batch Molecular Weight: 1106.58

Physical Appearance: Orange solid

Minimum Purity: $\geq 95\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Payne et al (2022) A direct high-throughput protein quantification strategy facilitates discovery and characterization of a celastrol-derived BRD4 degrader. *Cell Chem.Biol.* **18** 1333. PMID: 35649410.

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