

# Certificate of Analysis

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**Product Name:** Janelia Fluor® 635, BromoCatch™ Ligand

**Catalog No.:** 8937

**Batch No.:** 1

**IUPAC Name:** 4-(((*R*)-14-((*S*)-4-(4-Acrylamidophenyl)-2,3,9-trimethyl-6*H*-thieno[3,2-*f*][1,2,4]triazolo[4,3-*a*][1,4]diazepin-6-yl)-13-oxo-3,6,9-trioxa-12-azahexadecyl)carbamoyl)-2-(3-(3-fluoroazetidin-1-ium-1-ylidene)-7-(3-fluoroazetidin-1-yl)-5,5-dimethyl-3,5-dihydrodibenzo[*b,e*]silin-10-yl)benzoate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>61</sub>H<sub>67</sub>F<sub>2</sub>N<sub>9</sub>O<sub>8</sub>SSi

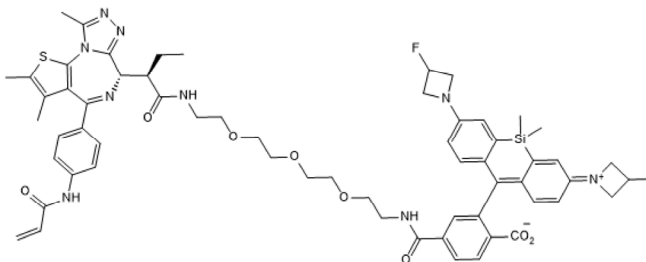
**Batch Molecular Weight:** 1152.4

**Physical Appearance:** Pale blue solid

**Solubility:** DMSO to 10 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 96.4% purity at 643 nm

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**UV Spectrum:** Consistent with structure

**λ<sub>max</sub>:** 645 nm (EtOH + 0.1% TFA)

**λ<sub>ex</sub>:** 646 nm (EtOH + 0.1% TFA)

**λ<sub>em</sub>:** 662 nm (EtOH + 0.1% TFA)

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

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**IUPAC Name:** 4-(((R)-14-((S)-4-(4-Acrylamidophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)-13-oxo-3,6,9-trioxa-12-azahexadecyl)carbamoyl)-2-(3-(3-fluoroazetidin-1-ium-1-ylidene)-7-(3-fluoroazetidin-1-yl)-5,5-dimethyl-3,5-dihydrodibenzo[*b,e*]silin-10-yl)benzoate

**Description:**

Janelia Fluor® 635, BromoCatch™ Ligand is a fluorogenic BromoCatch™ ligand functionalized with Janelia Fluor® 635, designed for real-time, no-wash imaging of BromoCatch-tagged proteins in live cells. Upon covalent binding to the BromoCatch™ tag, this probe undergoes a fluorescence switch-on due to the environmental sensitivity of the Janelia Fluor® 635 dye, delivering bright, red-shifted signal with minimal background fluorescence. Janelia Fluor® 635, BromoCatch™ Ligand enables nuclear-targeted labeling of fusion constructs such as H2B-BromoCatch, and shows no off-target activity in wild-type or untrans... Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

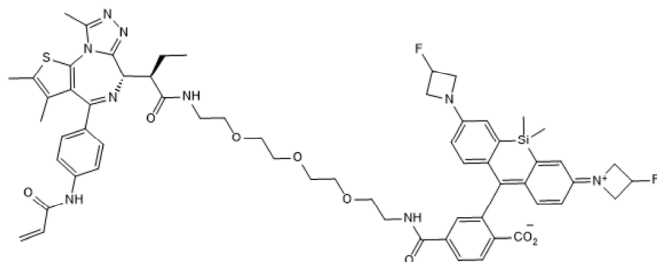
Batch Molecular Formula: C<sub>61</sub>H<sub>67</sub>F<sub>2</sub>N<sub>9</sub>O<sub>8</sub>SSi

Batch Molecular Weight: 1152.4

Physical Appearance: Pale blue 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.

**Licensing Information:**

Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus and the University of Dundee

**References:**

**Rodriguez-Rios *et al* (2025)** BromoCatch: a self-labelling tag platform for protein analysis and live cell imaging. biorxiv.

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