

Product Name: DHC-156

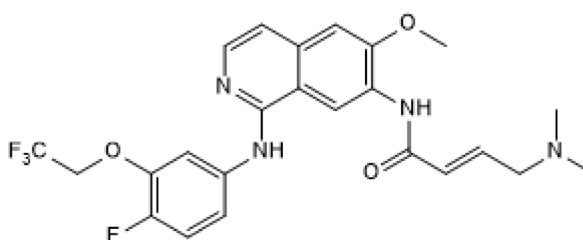
Catalog No.: 8168

Batch No.: 1

IUPAC Name: (E)-4-(Dimethylamino)-N-[1-[4-fluoro-3-(2,2,2-trifluoroethoxy)anilino]-6-methoxy-7-isoquinoly]but-2-enamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₄F₄N₄O₃.
Batch Molecular Weight: 492.47
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.53	4.91	11.38
Found	58.4	4.83	11.29

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Description:

DHC-156 is a brachyury down modulator ($DC_{50} = 4.1 \mu\text{M}$, $D_{\text{Max}} > 99\%$ at $10 \mu\text{M}$). DHC-156 down modulates brachyury post-translationally, in a proteasome- and lysosome-independent manner. DHC-156 down modulation of brachyury results in an irreversible impairment of chordoma tumor cell growth.

Physical and Chemical Properties:

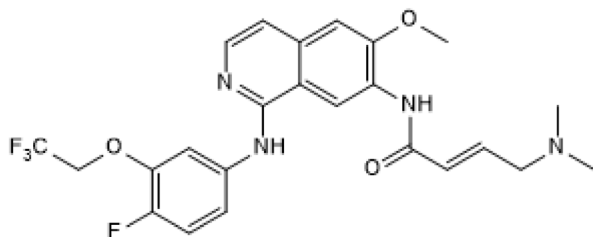
Batch Molecular Formula: $\text{C}_{24}\text{H}_{24}\text{F}_4\text{N}_4\text{O}_3$.

Batch Molecular Weight: 492.47

Physical Appearance: Beige solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Chase *et al* (2024) Development of a small molecule downmodulator for the transcription factor brachyury. *Angew.Chem.Int.Ed.Engl.* **63** e202316496. PMID: 38348945.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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 $45\text{-}60^{\circ}\text{C}$ 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.

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