

Product Name: Dynarrestin

Catalog No.: 6526

Batch No.: 1

CAS Number: 2222768-84-3

IUPAC Name: Ethyl 4-(4-(diethylamino)phenyl)-2-((2,4-difluorophenyl)amino)thiazole-5-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₃F₂N₃O₂S.

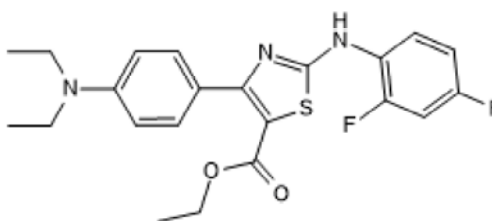
Batch Molecular Weight: 431.5

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Petroleum ether [1:9])

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.24	5.37	9.74
Found	61.12	5.34	9.72

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

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Description:

Dynein inhibitor. Inhibits hedgehog signaling in vitro ($IC_{50} = 0.22 \mu M$). Exhibits reversible inhibition of cytoplasmic dynein 1-dependent microtubule binding and cytoplasmic dynein 2-dependent intraflagellar transport. Inhibits tumor cell proliferation in a mouse medulloblastoma model.

Physical and Chemical Properties:

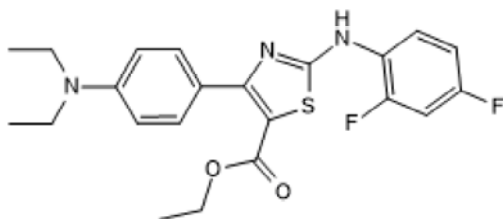
Batch Molecular Formula: $C_{22}H_{23}F_2N_3O_2S$.

Batch Molecular Weight: 431.5

Physical Appearance: Yellow solid

Minimum Purity: >98%

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 100 mM

The compound reportedly undergoes slow decomposition when stored in DMSO, even at $-20^{\circ}C$. It is recommended that single use solutions are prepared and used on the day of preparation.

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. Our standard recommendations are:

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:

Höing *et al* (2018) Dynarrestin, a novel inhibitor of cytoplasmic dynein. *Cell Chem.Biol.* **25** 357. PMID: 29396292 .

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