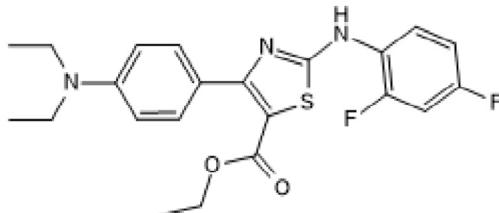


Certificate of Analysiswww.tocris.com**Product Name:** Dynarrestin**Catalog No.:** 6526**Batch No.:** 1

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:** Pale 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 98.7% 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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Product Information

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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

Description:

Dynarrestin is a 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.

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.

Physical and Chemical Properties:

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

Batch Molecular Weight: 431.5

Physical Appearance: Pale yellow solid

Solubility & Usage Info:

DMSO to 100 mM

The compound reportedly undergoes slow decomposition when stored in DMSO, even at -20°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°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:

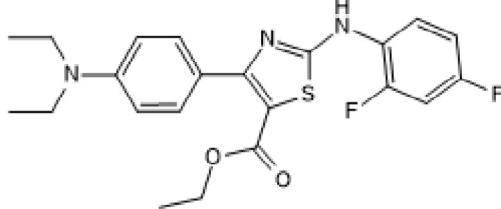
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

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.

Minimum Purity:

≥98%

Batch Molecular Structure:



References:

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

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