

Product Name: GSK 626616

Catalog No.: 6638

Batch No.: 1

CAS Number: 1025821-33-3

IUPAC Name: (5Z)-2-[(2,6-Dichlorophenyl)amino]-5-(6-quinoxalinylmethylene)-4(5H)-thiazolone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₀Cl₂N₄OS.¾H₂O

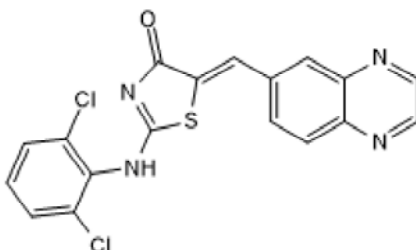
Batch Molecular Weight: 414.78

Physical Appearance: Pale orange solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	52.12	2.79	13.51
Found	52.34	2.59	13.35

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

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Description:

Potent and selective DYRK inhibitor (IC_{50} = 0.7 nM for DYRK3, similar potency for DYRK1 and 2). Exhibits ~20-fold selectivity over casein kinase 2 and negligible activity against a panel of 451 kinases screened. Enhances number of CFU-E stimulated by Epo from human marrow. Increases hemoglobin levels in anemic mice. Orally bioavailable.

Physical and Chemical Properties:

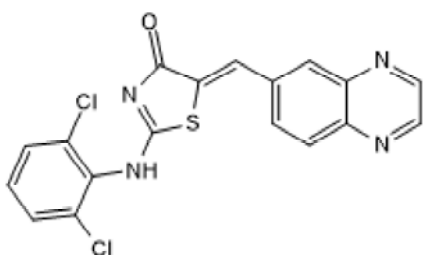
Batch Molecular Formula: $C_{18}H_{10}Cl_2N_4OS \cdot \frac{3}{4}H_2O$

Batch Molecular Weight: 414.78

Physical Appearance: Pale orange solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Rai et al (2018) Kinase-controlled phase transition of membraneless organelles in mitosis. *Nature* **559** 211. PMID: 29973724.

Wippich et al (2013) Dual specificity kinase DYRK3 couples stress granule condensation/dissolution to mTORC1 signaling. *Cell* **152** 791. PMID: 23415227.

Erickson-Miller et al (2007) GSK626616: A DYRK3 inhibitor as a potential new therapy for the treatment of anemia. *Blood* **110** 510.

Storage: Store at +4°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

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. 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°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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