

Certificate of Analysis

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Product Name: Lin28 1632

Catalog No.: 6068

Batch No.: 2

CAS Number: 108825-65-6

IUPAC Name: *N*-Methyl-*N*-[3-(3-methyl-1,2,4-triazolo[4,3-*b*]pyridazin-6-yl)phenyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₅N₅O.H₂O

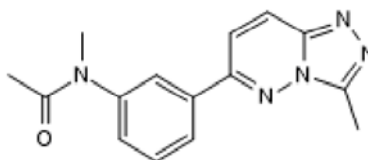
Batch Molecular Weight: 299.33

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.19	5.72	23.4
Found	60.31	5.43	23.47

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

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Description:

RNA binding protein Lin28 inhibitor (IC₅₀ = 8 μM). Blocks binding of Lin28 to let-7 pre-micro RNA. Inhibits stemness and induces differentiation of murine ESCs. Increases let-7 miRNA and suppresses PD-L1 expression in multiple human cancer cell lines. Inhibits growth of tumor cell lines and tumor-sphere formation in vitro. Also inhibits growth of tumor xenografts in mice by enhancing T cell-mediated antitumor immunity. Also bromodomain inhibitor.

Physical and Chemical Properties:

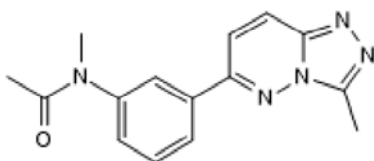
Batch Molecular Formula: C₁₅H₁₅N₅O.H₂O

Batch Molecular Weight: 299.33

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

References:

Chen et al (2019) LIN28/ let-7/PD-L1 pathway as a target for cancer immunotherapy. *Cancer Immunol.Res.* **7** 487. PMID: 30651289.

Roos et al (2016) A small-molecule inhibitor of Lin28. *ACS Chem.Biol.* **11** 2773. PMID: 27548809.

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