

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

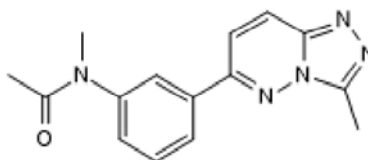
Batch Molecular Weight: 299.33

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:

Lin28 1632 is an RNA binding protein Lin28 inhibitor (IC₅₀ = 8 μM). Lin28 1632 blocks binding of Lin28 to let-7 pre-micro RNA. Lin28 1632 inhibits stemness and induces differentiation of murine ESCs. Lin28 1632 increases let-7 miRNA and suppresses PD-L1 expression in multiple human cancer cell lines. Lin28 1632 inhibits growth of tumor cell lines and tumor-sphere formation in vitro. Lin28 1632 also inhibits growth of tumor xenografts in mice by enhancing T cell-mediated antitumor immunity. Lin28 1632 is also bromodomain inhibitor. Lin28 1632 inhibits tumor growth and metastasis in vivo in immunodeficient orthotopic mouse models of human... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

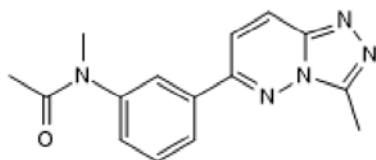
Batch Molecular Formula: C₁₅H₁₅N₅O.H₂O

Batch Molecular Weight: 299.33

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Chen et al (2019) Targeting LIN28B reprograms tumor glucose metabolism and acidic microenvironment to suppress cancer stemness and metastasis. *Oncogene* **38** 4527. PMID: 30742065.

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.

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.

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