

Primordazine B

Chemical Properties

CAS No. : 339337-07-4

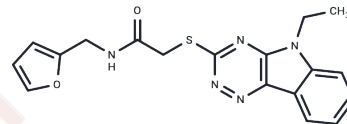
Formula: C₁₈H₁₇N₅O₂S

Molecular Weight: 367.42

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Primordazine B is a small molecule that selectively ablates Primordial Germ Cells (PGCs). It functions by specifically inhibiting a process known as Poly(A)-tail Independent Non-canonical Translation (PAINT), without interfering with typical Poly(A) tail-dependent translation (PAT). Primordazine B serves as a valuable tool for investigating translational control mechanisms in specific physiological or pathological contexts, such as gene expression regulation during cell dormancy, viral infection, or stress conditions.
Targets(IC50)	Others
In vitro	Primordazine B causes germ cell (PGC) loss in zebrafish by inhibiting PAINT-mediated mRNA translation [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7217 mL	13.6084 mL	27.2168 mL
5 mM	0.5443 mL	2.7217 mL	5.4434 mL
10 mM	0.2722 mL	1.3608 mL	2.7217 mL
50 mM	0.0544 mL	0.2722 mL	0.5443 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Xiong C, et al. 1,4-diheterocyclic substituted aromatic ring or aromatic heterocyclic compound and use thereof. WO2023185821A1. 2023-10-05.

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