Product Datasheet

Technical Data

Formula	$C_{20}H_{22}N_2O$					
Molecular Weight	306.4	**CAS No.**	425399-05-9			
Solubility (25°C)*	In vitro	DMSO	61 mg/mL (199.08 mM)			
		Ethanol	61 mg/mL (199.08 mM)			
		Water	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.2637 mL	16.3185 mL	32.6371 mL
5 mM	0.6527 mL	3.2637 mL	6.5274 mL
10 mM	0.3264 mL	1.6319 mL	3.2637 mL
50 mM	0.0653 mL	0.3264 mL	0.6527 mL

Biological Activity

Description	CASIN (Pirl1-related Compound 2) directly inhibits activation of **Cdc42/RhoGDI** with IC50 of 2 μM.
Targets	Cdc42/RhoGDI [1] (Cell-free assay) 2 μM
In vitro	CASIN facilitates the eradication of ALL LSCs by AraC + QC and prolongs the survival of both primary and secondary recipients without affecting long-term normal human hematopoiesis.[2]
In vivo	The combination of CASIN with the AraC + QC regimen eliminates quiescent LSCs and prolongs the survival of xenografted mice.[2]

Protocol (from reference)

Cell Assay:[2]

- **Cell lines**
  Human ALL cell line Molt4-Luc2 expressing luciferase maker
- **Concentrations**
  5 μM
- **Incubation Time**
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- **Method**
  For in vitro studies, CASIN (containing 0.02-0.2% DMSO) was used at 5 μM in the culture medium.

Animal Study:[2]

- **Animal Models**
  Humanized NSGS mice expressing transgenic cDNA encoding human SCF, GM-SCF, and IL-3 (NOD SCID IL-2Rγ -/- SCF, GM-CSF, and IL-3) 36
- **Dosages**
  2.4 mg/kg
- **Administration**
  i.p.

References

https://pubmed.ncbi.nlm.nih.gov/16632257/ https://pubmed.ncbi.nlm.nih.gov/34836965/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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