CCF642

Catalog No.C13314 Batch:C1331403

Product Datasheet

Technical Data

Formula	$C_{15}H_{10}N_2O_4S_3$					
Molecular Weight	378.45	**CAS No.**	346640-08-2			
Solubility (25°C)*	In vitro	DMSO	15 mg/mL (39.63 mM)			
		Water	Insoluble			
		Ethanol	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

Biological Activity

Description	CCF642 (AC1LYELL) is a novel **PDI-inhibiting** compound with antimyeloma activity.
Targets	protein disulfide isomerases [1]
In vitro	In vitro, CCF642 inhibits PDI reductase activity about 100-fold more potently than the structurally distinct established inhibitors PACMA 31 and LOC14. Computational modeling suggests a novel covalent binding mode in active-site CGHCK motifs. This compound causes acute ER stress in multiple myeloma cells accompanied by apoptosis-inducing calcium release[1].
In vivo	CCF642 displays potent efficacy in an aggressive syngeneic mouse model of multiple myeloma and prolongs the lifespan of C57BL/KaLwRij mice engrafted with 5TGM1-luc myeloma, an effect comparable to the first-line multiple myeloma therapeutic.

Protocol (from reference)

Animal Study:[1]

- **Animal Models**
  C57BL/KaLwRij mice
- **Dosages**
  10 mg/kg
- **Administration**
  i.p.

References

https://pubmed.ncbi.nlm.nih.gov/27197150/

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.

EU Headquarters
Gajeva ulica 28, HR-10000 Zagreb, Croatia

US Headquarters
12222 Merit Dr STE 130 Dallas, Texas, 75251

UK Headquarters
121 ABILITY HOUSE, BROOKER ROAD, EN9 1JH, ESSEX

Orders: Sales@capsidbio.com
Enquiries: info@capsidbio.com
www.capsidbio.com