SMER28

Catalog No.C13285 Batch:C1328503

Product Datasheet

Technical Data

Formula	$C_{11}H_{10}BrN_3$					
Molecular Weight	264.12	**CAS No.**	307538-42-7			
Solubility (25°C)*	In vitro	DMSO	53 mg/mL (200.66 mM)			
		Ethanol	53 mg/mL (200.66 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

Biological Activity

Description	SMER28 is a small-molecule enhancer (SMER) of autophagy, inducing **autophagy** independently of rapamycin in mammalian cells.
Targets	Autophagy [1]
In vitro	SMER28 is a positive regulator of autophagy in a mechanism independent from the mTOR pathway. It increases autophagosome synthesis and enhances the clearance of model autophagy substrates such as A53T a-synuclein and mutant huntingtin fragments. A marked decrease in Aβ/APP-CTF levels and enhancement for degradation of Aβ/APP-CTF via autophagy is also induced by this compound. APP-CTF and LC3-II are cocompartmentalized on this chemical treatment[1].

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  MEF cells overexpressing βCTF/ N2a-APP cells/ Rat primary neuronal cultures
- **Concentrations**
  10μM in MEF cells/0-50μM in N2a-APP cells and rat primary neuronal cultures
- **Incubation Time**
  16hrs
- **Method**
  MEF cells overexpressing βCTF are treated with autophagy-enhancing compounds (10 μM) for 16 h. Cell lysates are analyzed by SDS-PAGE and Western blotting using anti-βCTF (6E10) and anti-tubulin antibodies.

References

https://pubmed.ncbi.nlm.nih.gov/21368103/

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.

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