WS3

Catalog No.C12688 Batch:C1268803

Product Datasheet

Technical Data

Formula	$C_{28}H_{30}F_3N_7O_3$					
Molecular Weight	569.58	**CAS No.**	1421227-52-2			
Solubility (25°C)*	In vitro	DMSO	100 mg/mL (175.56 mM)			
		Ethanol	80 mg/mL (140.45 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.
		Injection	Clear solution	5%DMSO [1]→ Corn oil Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	0.700mg/ml (1.23mM)	Taking the 1 mL working solution as an example, add 50 μL of 14 mg/ml clear DMSO stock solution to 950 μL of corn oil and mix evenly. The mixed solution should be used immediately for optimal results.

* <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	1.7557 mL	8.7784 mL	17.5568 mL
5 mM	0.3511 mL	1.7557 mL	3.5114 mL
10 mM	0.1756 mL	0.8778 mL	1.7557 mL
50 mM	0.0351 mL	0.1756 mL	0.3511 mL

Biological Activity

Description	WS3 is a β cell proliferation inducer via modulation of **Erb3 binding protein-1 (EBP1)** and the **IκB kinase** pathway.
Targets	EBP1 [1] | IκB kinase [1]
In vitro	WS3 induces proliferation of the mouse β cell line R7T1 with EC50 of 0.074 μM. [1] This compound reversibly induces proliferation of primary fetal and adult human retinal pigment epithelial (RPE) cells. [2]

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  R7T1 cells
- **Concentrations**
  ~10 μM
- **Incubation Time**
  4 days
- **Method**
  R7T1 cells are growth-arrested by removal of doxycycline for 2 days and plated into 384-well plates at a density of 3,000 cells/well in growth medium. B cell proliferation is assessed using CellTiter Glo after 4 days. Fold increase in cell number is calculated by normalizing compound-treated wells to the median of DMSO-treated wells.

References

https://pubmed.ncbi.nlm.nih.gov/23330637/ https://pubmed.ncbi.nlm.nih.gov/23621521/

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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