Product Datasheet

Technical Data

Formula	$C_{22}H_{26}N_2O_3.HCl$					
Molecular Weight	402.91	**CAS No.**	130495-35-1			
Solubility (25°C)*	In vitro	DMSO	80 mg/mL (198.55 mM)			
		Water	80 mg/mL (198.55 mM)			
		Ethanol	80 mg/mL (198.55 mM)			
	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] → 40%PEG300 [2] → 5%Tween80 [3] → 50%ddH2O Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	4mg/ml (9.93mM)	Taking the 1 mL working solution as an example, add 50 μL of 80 mg/ml clarified DMSO stock solution to 400 μL of PEG300, mix evenly to clarify it; add 50 μL of Tween80 to the above system, mix evenly to clarify; then continue to add 500 μL of ddH2O to adjust the volume to 1 mL. The mixed solution should be used immediately for optimal results.
			Clear solution	5% DMSO [1] → 95% Corn oil Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	0.57mg/ml (1.41mM)	Taking the 1 mL working solution as an example, add 50 μL of 11.4 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	2.4819 mL	12.4097 mL	24.8194 mL
5 mM	0.4964 mL	2.4819 mL	4.9639 mL
10 mM	0.2482 mL	1.2410 mL	2.4819 mL
50 mM	0.0496 mL	0.2482 mL	0.4964 mL

Biological Activity

Description	SKF96365, originally identified as a blocker of receptor-mediated calcium entry, is widely used diagnostically, as a blocker of **transient receptor potential canonical type (TRPC) channels**.
Targets	TRPC [1]
In vitro	SKF-96365 exhibits protective activity against MPP+ injury in PC12 cells and significantly inhibits apoptotic cell death in PC12 cells after MPP+ administration. SKF-96365 does not exert effects on necrotic cell death induced by MPP+ insult in PC12 cells. Because of its non-selective activity, SKF-96365 has been demonstrated to have effects on multiple other Ca2+ channels: it not only blocks high-voltage-activated (HVA) Ca2+ channels at typically utilized test concentrations, but also potently inhibits low-voltage -activated (LVA) T-type Ca2+ channels in HEK293 cells. The exact effect of SKF-96365 on intracellular calcium homeostasis might dependent on cell types and experimental models used[2].
In vivo	SKF-96365 treatment inhibited the calcium/calmodulin-dependent protein kinase IIγ (CaMKIIγ)/AKT signaling cascade in vitro and in vivo[4].

Protocol (from reference)

Cell Assay:[2]

- **Cell lines**
  PC12 cells
- **Concentrations**
  1 μM, 10 μM or 50 μM
- **Incubation Time**
  30 min
- **Method**
  To investigate whether SKF-96365 could protect PC12 cells from injury induced by MPP+ insult, cultured PC12 cells are pretreated with SKF-96365 in different concentrations (1 μM, 10 μM or 50 μM) 30 min before MPP+ addition. The cells viability is measured 24 h after MPP+ insult by using the cell proliferation reagent WST-1.

Animal Study:[3]

- **Animal Models**
  C57BL/6N mice
- **Dosages**
  0.02 μmol & 0.2 μmol/2 μl/mouse
- **Administration**
  intrastriatally

References

https://pubmed.ncbi.nlm.nih.gov/20590636/ https://pubmed.ncbi.nlm.nih.gov/23383239/ https://pubmed.ncbi.nlm.nih.gov/19680266/

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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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