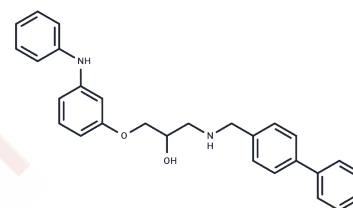


Anti-melanoma agent 1

Chemical Properties

CAS No. :	2418579-17-4
Formula:	C ₂₈ H ₂₈ N ₂ O ₂
Molecular Weight:	424.53
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Anti-melanoma agent 1 (Compound 5m) is a 1-arylamino-3-aryloxypropan-2-ol derivative. It acts by disrupting microtubules, arresting cell cycle at G2/M phase, and inducing apoptosis in melanoma lines (IC ₅₀ = 1.98 - 3.70 μM).
Targets(IC ₅₀)	Apoptosis, Cell Cycle Arrest, Microtubule Associated
In vitro	Anti-melanoma agent 1 potently inhibits A375 cells (IC ₅₀ = 1.98 μM); 1-2 μM disrupts microtubules, inducing G2/M arrest and apoptosis [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (188.44 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3555 mL	11.7777 mL	23.5555 mL
5 mM	0.4711 mL	2.3555 mL	4.7111 mL
10 mM	0.2356 mL	1.1778 mL	2.3555 mL
50 mM	0.0471 mL	0.2356 mL	0.4711 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lars Anders, et al. Genome-wide localization of small molecules. Nat Biotechnol. 2014 Jan;32(1):92-6.

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