

(R)-DNMDP

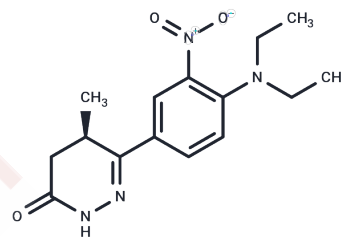
Chemical Properties

CAS No. : 1630760-60-9

Formula: C₁₅H₂₀N₄O₃

Molecular Weight: 304.34

Storage: Store at low temperature, Keep away from direct sunlight
 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	(R)-DNMDP is a potent and selective cancer cytotoxic agent that directly binds PDE3A and has an EC ₅₀ 500-fold lower than that of (S)-DNMDP against HeLa.
Targets(IC ₅₀)	PDE
In vitro	(R)-DNMDP is a selective cancer-cytotoxic small molecule that, in large-scale cell line screening, showed low-nanomolar EC ₅₀ values (10-100 nM) against multiple tumor cell lines, including HeLa, NCI-H1734, NCI-H1563, and NCI-H2122, while exhibiting no toxicity to non-sensitive cell lines such as A549, MCF7, and PC3[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (262.86 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	3.2858 mL	16.429 mL	32.858 mL
5 mM	0.6572 mL	3.2858 mL	6.5716 mL
10 mM	0.3286 mL	1.6429 mL	3.2858 mL
50 mM	0.0657 mL	0.3286 mL	0.6572 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

de Waal L, et al. Identification of cancer-cytotoxic modulators of PDE3A by predictive chemogenomics. Nat Chem Biol. 2016 Feb;12(2):102-8. Nat Chem Biol. 2016 Feb;12(2):102-8.

Luc DE WAAL, et al. Compositions and methods for cancer expressing pde3a or slfn12. WO2017027854A1.

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