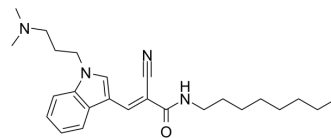


Dynole 34-2

Cat. No.:	HY-107545
CAS No.:	1128165-88-7
Molecular Formula:	C ₂₅ H ₃₆ N ₄ O
Molecular Weight:	408.58
Target:	Dynamin
Pathway:	Cytoskeleton
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (244.75 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4475 mL	12.2375 mL	24.4750 mL
		5 mM	0.4895 mL	2.4475 mL	4.8950 mL
		10 mM	0.2448 mL	1.2238 mL	2.4475 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Dynole 34-2 is a dynamin GTPase inhibitor (IC ₅₀ s=6.9 and 14.2 μM for dynamin1 and dynamin2 GTPase activity, respectively) with antimitotic effect. Dynole 34-2 induces apoptosis, as revealed by cell blebbing, DNA fragmentation, and PARP cleavage [1]. Dynole 34-2 also potently inhibits receptor mediated endocytosis (RME)[2].
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REFERENCES

- [1]. Chircop M, et al. Inhibition of dynamin by dynole 34-2 induces cell death following cytokinesis failure in cancer cells. *Mol Cancer Ther.* 2011 Sep;10(9):1553-62.
- [2]. Hill TA, et al. Inhibition of dynamin mediated endocytosis by the dynoles--synthesis and functional activity of a family of indoles. *J Med Chem.* 2009 Jun 25;52(12):3762-73.

Caution: Product has not been fully validated for medical applications. For research use only.

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