N-1-Naphthylphthalamic acid

Cat. No.:	HY-116425		
CAS No.:	132-66-1		
Molecular Formula:	C ₁₈ H ₁₃ NO ₃		
Molecular Weight:	291.3		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	3.4329 mL	17.1644 mL	34.3289 mL			
		5 mM	0.6866 mL	3.4329 mL	6.8658 mL			
		10 mM	0.3433 mL	1.7164 mL	3.4329 mL			
	Please refer to the so	lubility information to select the ap	propriate solvent.					
In Vivo	 Add each solvent of Solubility: ≥ 2.5 m Add each solvent of 	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.58 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil 						

BIOLOGICAL ACTIV				
Description	N-1-Naphthylphthalamic acid (Alanap 1) is a modulator of polar auxin transport that competes with auxin (indole-3-acetic acid, IAA) for membrane binding sites. N-1-Naphthylphthalamic acid also disrupts maize leaf initiation, KNOX protein regulation, and leaf margin formation ^[1] .			
In Vitro	N-1-Naphthylphthalamic acid (0.01-100 μM; 1 h) stimulates net uptake of [(3)H]IAA by maize coleoptile tissue at low concentrations (<10 μM) and inhibits the uptake of [(3)H]IAA and [(14)C]benzoic acid at high concentrations (>100 μ M)s[2]s/.br/ M)s[2]s/.br/ MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	N-1-Naphthylphthalamic acid			

0

HN

O_≫_OH



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REFERENCES

[1]. Ihsan BurakCam, et al. Physical and chemical properties of cow cockle seeds (Vaccaria hispanica (Mill.) Rauschert) genetic resources of Turkey.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA