Meta-topolin

Cat. No.:	HY-112104		
CAS No.:	75737-38-1		
Molecular Formula:	C ₁₂ H ₁₁ N ₅ O		
Molecular Weight:	241.25		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (518.13 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	4.1451 mL	20.7254 mL	41.4508 mL		
		5 mM	0.8290 mL	4.1451 mL	8.2902 mL		
	10 mM	0.4145 mL	2.0725 mL	4.1451 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: ≥ 2.08 mg/mL (8.62 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.62 mM); Clear solution						
	 Add each solvent of Solubility: ≥ 2.08 n 	one by one: 10% DMSO >> 90% cor ng/mL (8.62 mM); Clear solution	n oil				

DIOLOGICALACITY	
Description	Meta-Topolin (m-Topolin) is a highly active aromatic cytokinin.
In Vitro	Meta-Topolin is first isolated from poplar leaves. Meta-Topolin is a natural constituent of plant tissues, together with its 9-β- D-ribofuranosyl and 9-β-v-glucopyranosyl derivatives. Meta-topolin is more active than zeatin and benzyladenine in the promotion of shoot formation in plant tissue cultures ^[1] . In Spathiphyllum floribundum, shoot production in media with BAP and meta-topolin is very similar ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

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REFERENCES

[1]. Strnad M, et al. Meta-topolin, a highly active aromatic cytokinin from poplar leaves (Populus × canadensis Moench., cv. Robusta). Phytochemistry 45(2):213-218.

[2]. Werbrouck S, et al. Meta-topolin, an alternative to benzyladenine in tissue culture? 1996. 98 (2):291-297.

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

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