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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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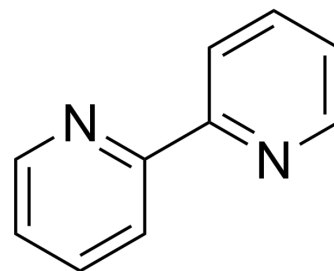
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2,2'-Bipyridine

Cat. No.:	HY-D0020		
CAS No.:	366-18-7		
Molecular Formula:	C ₁₀ H ₈ N ₂		
Molecular Weight:	156.18		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (640.29 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.4029 mL	32.0143 mL	64.0287 mL
		5 mM	1.2806 mL	6.4029 mL	12.8057 mL
10 mM		0.6403 mL	3.2014 mL	6.4029 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3 mg/mL (19.21 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (19.21 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3 mg/mL (19.21 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	2,2'-Bipyridine is the unique molecular scaffold of the bioactive natural products. 2,2'-Bipyridine is extensively used as the core structure of many chelating ligands by acting as a bridge in the arrangement of the catalytic center. 2,2'-Bipyridine shows robust redox stability and hyperglycemic activity ^{[1][2]} .
In Vivo	2,2'-Bipyridine (40 mg/kg; s.c.; once) produces an initial hyperglycemia (an increase of 53.8 mg/100 mL at 2 hours) followed by a transient hypoglycemic phase at 24 hours and does not produce permanent diabetes ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Holtzman rats (6-8 weeks old) ^[2] .
Dosage:	40 mg/kg
Administration:	Subcutaneous injection; once.
Result:	Showed hyperglycemic activity.

REFERENCES

[1]. Kenny A D, et al. The hyperglycemic activity of 2, 2'-bipyridine[J]. Journal of Pharmacology and Experimental Therapeutics, 1962, 135(3): 317-322.

[2]. Chen D, et al. Discovery of caerulomycin/collismycin-type 2,2'-bipyridine natural products in the genomic era. J Ind Microbiol Biotechnol. 2019;46(3-4):459-468.

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

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