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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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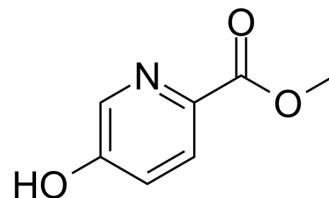
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Methyl 5-hydroxypyridine-2-carboxylate

Cat. No.:	HY-W005963		
CAS No.:	30766-12-2		
Molecular Formula:	C ₇ H ₇ NO ₃		
Molecular Weight:	153.14		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (326.50 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		6.5300 mL	32.6499 mL	65.2997 mL
		5 mM		1.3060 mL	6.5300 mL	13.0599 mL
10 mM			0.6530 mL	3.2650 mL	6.5300 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: ≥ 2.5 mg/mL (16.32 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.32 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.32 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Methyl 5-hydroxypyridine-2-carboxylate is a phenolic acid that can found in the stems of Mahonia fortune. Methyl 5-hydroxypyridine-2-carboxylate exhibits NO inhibitory effects in vitro ^[1] .
In Vitro	<p>Methyl 5-hydroxypyridine-2-carboxylate (compound 2) inhibits NO in LPS-stimulated RAW264.7 and BV2 cells, with IC₅₀s of 115.67 and 118.80 μM, respectively^[1].</p> <p>Methyl 5-hydroxypyridine-2-carboxylate (6.25-200 μM) does not exhibit any cytotoxic effect^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Liu L, et, al. Simultaneous characterisation of multiple Mahonia fortunei bioactive compounds in rat plasma by UPLC-MS/MS for application in pharmacokinetic studies and anti-inflammatory activity in vitro. J Pharm Biomed Anal. 2020 Feb 5;179:113013.

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

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