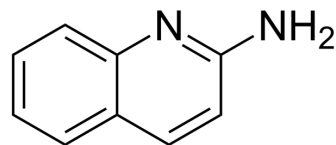


## 2-Aminoquinoline

<b>Cat. No.:</b>	HY-W007524
<b>CAS No.:</b>	580-22-3
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>8</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	144.17
<b>Target:</b>	NO Synthase; Orthopoxvirus
<b>Pathway:</b>	Immunology/Inflammation; Anti-infection
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (693.63 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	6.9363 mL	34.6813 mL	69.3626 mL
		5 mM	1.3873 mL	6.9363 mL	13.8725 mL
	10 mM	0.6936 mL	3.4681 mL	6.9363 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (17.34 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (17.34 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (17.34 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	2-Aminoquinoline (2-Quinolinamine) is a promising compound as bioavailable nNOS inhibitor but suffers from low human nNOS inhibition, low selectivity versus human eNOS, and significant binding to other CNS targets. 2-Aminoquinoline exhibits antiviral activity against the vaccinia virus. 2-Aminoquinoline has the potential for the research of antineurodegenerative agents <sup>[1][2]</sup> .
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### REFERENCES

[1]. Pensa AV, et al. Hydrophilic, Potent, and Selective 7-Substituted 2-Aminoquinolines as Improved Human Neuronal Nitric Oxide Synthase Inhibitors. J Med Chem.

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2017;60(16):7146-7165.

[2]. Smee DF, et, al. A review of compounds exhibiting anti-orthopoxvirus activity in animal models. Antiviral Res. 2003 Jan;57(1-2):41-52.

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

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