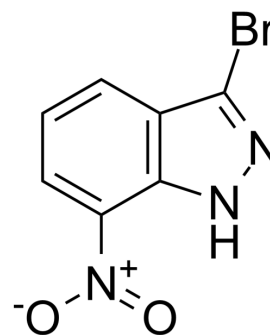


## 3-Bromo-7-nitroindazole

<b>Cat. No.:</b>	HY-101175		
<b>CAS No.:</b>	74209-34-0		
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>4</sub> BrN <sub>3</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	242.03		
<b>Target:</b>	NO Synthase		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (413.17 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.1317 mL	20.6586 mL	41.3172 mL
		5 mM	0.8263 mL	4.1317 mL	8.2634 mL
10 mM		0.4132 mL	2.0659 mL	4.1317 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 (10.33 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	3-Bromo-7-nitroindazole is a more potent and selective inhibitor of neuronal nitric oxide synthase (nNOS) than eNOS or inducible nitric oxide synthase (iNOS). 3-Bromo-7-nitroindazole affects the intercellular messenger nitric oxide (NO) synthesis throughout the body and brain <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	nNOS <sup>[1]</sup>

### REFERENCES

[1]. Gomez SS, et al. The effect of a selective neuronal nitric oxide synthase inhibitor 3-bromo 7-nitroindazole on spatial learning and memory in rats. Pharmacol Biochem Behav. 2015 Apr;131:19-25.

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

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