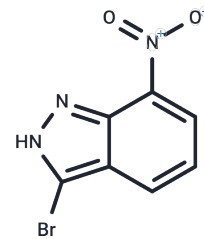


3-Bromo-7-nitroindazole

Chemical Properties

CAS No. :	74209-34-0
Formula:	C7H4BrN3O2
Molecular Weight:	242.03
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	3-Bromo-7-nitroindazole is a specific neuronal nitric oxide synthase (nNOS) inhibitor that affects the synthesis of the intercellular messenger NO throughout the brain and body.
Targets(IC50)	NOS,NO Synthase
In vivo	Male rats received either 3-Bromo-7-nitroindazole (20mg/kg/day) or saline via intraperitoneal injection for 5days. Daily administration of the specific neuronal nitric oxide synthase (nNOS) inhibitor, 3-Bromo-7-nitroindazole impaired the acquisition of the Morris water maze (MWM) paradigm task. 3-Bromo-7-nitroindazole also impaired the probe trial. The MWM training was associated with a significant increase in the brain-derived neurotrophic factor (BDNF) mRNA expression in the hippocampus. BDNF mRNA expression in the hippocampus did not change after 3-Bromo-7-nitroindazole treatment. L-arginine significantly reversed behavioural parameters, and the effect of 3-Bromo-7-nitroindazole was found to be NO-dependent. There were no differences in locomotor activity and blood pressure in 3-Bromo-7-nitroindazole treated rats[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (413.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (16.53 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0826 mL	0.4132 mL	0.8263 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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