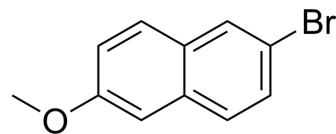


## 2-Bromo-6-methoxynaphthalene

Cat. No.:	HY-Y0038
CAS No.:	5111-65-9
Molecular Formula:	C <sub>11</sub> H <sub>9</sub> BrO
Molecular Weight:	237.09
Target:	Trk Receptor
Pathway:	Neuronal Signaling; Protein Tyrosine Kinase/RTK
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 (421.78 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		4.2178 mL	21.0890 mL	42.1781 mL
		5 mM		0.8436 mL	4.2178 mL	8.4356 mL
		10 mM		0.4218 mL	2.1089 mL	4.2178 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.54 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.54 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	2-Bromo-6-methoxynaphthalene is an active intermediate in the production of anti-inflammatory agents like Naproxen and Nabumetone by Heck reaction. 2-Bromo-6-methoxynaphthalene has potential anti-inflammatory properties and Tyrosine-protein inhibitor properties. 2-Bromo-6-methoxynaphthalene can be used for the research of cancer <sup>[1]</sup> .
In Vitro	2-Bromo-6-methoxynaphthalene (2BMN) has anti-inflammatory properties in the molecular docking outcomes <sup>[1]</sup> . 2-Bromo-6-methoxynaphthalene has low interaction energy and inhibition constant for 6QDZ and 2Z7S <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Rinnu Sara Saji, et al. Experimental and theoretical spectroscopic (FT-IR, FT-Raman, UV-VIS) analysis, natural bonding orbitals and molecular docking studies on 2-bromo-6-methoxynaphthalene: A potential anti-cancer drug. Heliyon

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

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