2-Bromo-6-methoxynaphthalene

Cat. No.: HY-Y0038

CAS No.: 5111-65-9

Molecular Formula: $C_{11}H_9BrO$

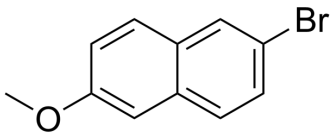
Molecular Weight: 237.09

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

Solvent / Mass / Concentration	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[1].

In Vitro

2-Bromo-6-methoxynaphthalene (2BMN) has anti-inflammatory properties in the molecular docking outcomes[1].
2-Bromo-6-methoxynaphthalene has low interaction energy and inhibition constant for 6QDZ and 2Z7S[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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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