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Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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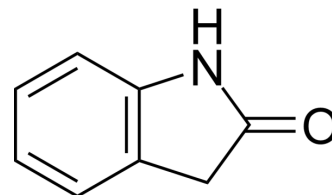
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Oxindole

Cat. No.:	HY-Y0061		
CAS No.:	59-48-3		
Molecular Formula:	C ₈ H ₇ NO		
Molecular Weight:	133.15		
Target:	HIV; Endogenous Metabolite		
Pathway:	Anti-infection; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (375.52 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.5103 mL	37.5516 mL	75.1033 mL
	5 mM	1.5021 mL	7.5103 mL	15.0207 mL
	10 mM	0.7510 mL	3.7552 mL	7.5103 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (18.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (18.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (18.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oxindole (Indolin-2-one) is an aromatic heterocyclic building block. 2-indolinone derivatives have become lead compounds in the research of kinase inhibitors.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Oxindole (Indolin-2-one) is a bicyclic structure consisting of a benzene ring fused to 2-pyrrolidone. Substituted indolinones can be referred as 'privileged structures' owing to their excellent binding affinity for many receptors and to the number of

approved drugs containing this scaffold^[1]. Oxindole has been found in tissues and fluids of mammals as well as natural products produced by a range of plants, bacteria and invertebrates. 2-indolinone derivatives possess diverse range of pharmacological activities including anti-cancer, anti-HIV, anti-diabetic, antibacterial, antioxidant, kinase inhibitory, AChE inhibitory, anti-leishmanial, b3 adrenergic receptor agonistic, phosphatase inhibitory, analgesic, spermicidal, vasopressin antagonists, progesterone antagonists, neuroprotection, NMDA blocker and sleep inducing activities^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Amino Acids. 2022 Jul 15.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Leoni A, et al. 2-Indolinone a versatile scaffold for treatment of cancer: a patent review (2008-2014). *Expert Opin Ther Pat.* 2016;26(2):149-73.
- [2]. Kaur M, et al. Oxindole: A chemical prism carrying plethora of therapeutic benefits. *Eur J Med Chem.* 2016 Nov 10;123:858-894.
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Caution: Product has not been fully validated for medical applications. For research use only.

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