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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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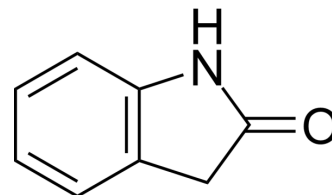
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Oxindole

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)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	1. 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				
	2. 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				
	3. 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.
IC ₅₀ & 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.

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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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