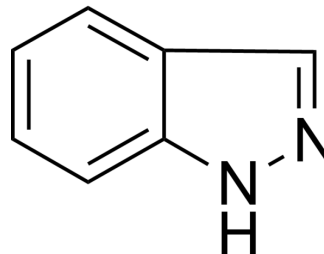


## Indazole

<b>Cat. No.:</b>	HY-40294		
<b>CAS No.:</b>	271-44-3		
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>6</sub> N <sub>2</sub>		
<b>Molecular Weight:</b>	118.14		
<b>Target:</b>	Monoamine Oxidase; GSK-3; LRRK2		
<b>Pathway:</b>	Neuronal Signaling; PI3K/Akt/mTOR; Stem Cell/Wnt; Autophagy		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	<p>Indazole, also called isoindazole, a heterocyclic aromatic organic compound. Its derivatives display a broad variety of biological activities including anti-inflammatory, antibacterial, anti-HIV, antiarrhythmic, antifungal and antitumour properties. Indazole and its derivatives can be used for research of cancer, neurological disorders, cardiovascular diseases, gastrointestinal diseases<sup>[1][2][3][4][5]</sup>.</p>
<b>In Vitro</b>	<p>Indazole compounds possess potential anticancer activity, and indazole-based agents such as, <a href="#">Axitinib</a> (HY-10065), <a href="#">Lonidamine</a> (HY-B0486) and <a href="#">Pazopanib</a> (HY-10208) have already been used for cancer research, demonstrating indazole compounds as useful templates for the development of novel anticancer agents<sup>[1]</sup>.</p> <p>Indazoles show potent activities against neurological disorders by inhibiting the monoamine oxidase (MAO) and kinase enzymes like Glycogen synthase kinase 3 (GSK3), and leucinerich repeat kinase enzyme 2 (LRRK2)<sup>[2]</sup>.</p> <p>Various natural and synthetic indazole derivatives Nigellidine, Nigellamine, Nigellidine, <a href="#">Zanubrutinib</a> (HY-101474A) and <a href="#">SCH772984</a> (HY-50846) shows prominent results to cure various gastrointestinal disorders<sup>[4]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Shang C, et al. The Anticancer Activity of Indazole Compounds: A Mini Review. *Curr Top Med Chem.* 2021;21(5):363-376.
- [2]. Pal D, et al. Importance of Indazole against Neurological Disorders. *Curr Top Med Chem.* 2022;22(14):1136-1151.
- [3]. Uppulapu SK, et al. Indazole and its Derivatives in Cardiovascular Diseases: Overview, Current Scenario, and Future Perspectives. *Curr Top Med Chem.* 2022;22(14):1177-1188.
- [4]. Saha S, et al. Indazole Derivatives Effective against Gastrointestinal Diseases. *Curr Top Med Chem.* 2022;22(14):1189-1214.
- [5]. Qin J, et al. Indazole as a Privileged Scaffold: The Derivatives and their Therapeutic Applications. *Anticancer Agents Med Chem.* 2021;21(7):839-860.

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

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