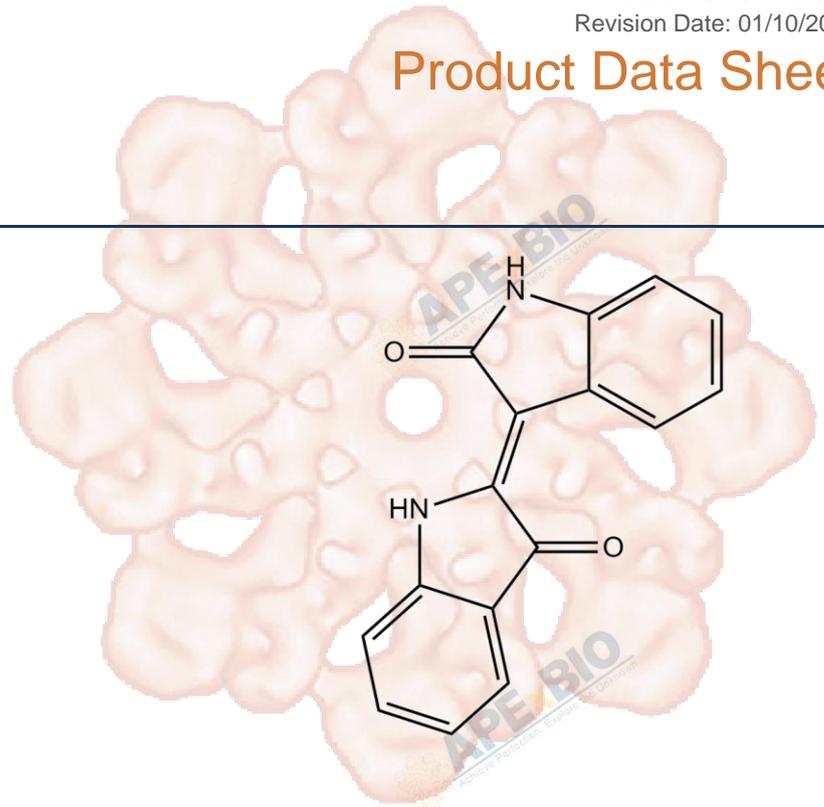


Product Data Sheet

Indirubin

Cat. No.:	B3672
CAS No.:	479-41-4
Formula:	C ₁₆ H ₁₀ N ₂ O ₂
M.Wt:	262.26
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	GSK-3
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in H₂O; insoluble in EtOH; ≥13.1 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	1 mM	3.8130 mL	19.0650 mL	38.1301 mL
	5 mM	0.7626 mL	3.8130 mL	7.6260 mL
	10 mM	0.3813 mL	1.9065 mL	3.8130 mL

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

Biological Activity

Shortsummary cyclin-dependent kinases and GSK-3β inhibitor

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	HBL-38 and HPB-ALL cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -

		20 °C for several months.
	Reacting conditions:	0 ~ 1000 ng/mL; for 24 hrs
	Applications:	In HBL-38 cells, Indirubin (10 ng/mL) strongly inhibited interferon- γ production without any influence on cell proliferation. The IC50 value of Indirubin was 0.15 ng/mL. However, in HPB-ALL cells, Indirubin did not affect interleukin-4 production stimulated by phytohemagglutinin, as well as cell proliferation.
In Vivo	Animal experiment	
	Animal models:	TNCB-induced delayed-type hypersensitivity mouse model
	Dosage form:	20 mg/day; i.p.; 4 days before sensitization to 4 days after sensitization
	Applications:	In the single elicitation experiment, Indirubin significantly inhibited ear swelling of the TNCB-induced delayed-type hypersensitivity mouse model at the 24th hr after treatment. In the experiment with repeated epicutaneous applications, Indirubin also inhibited ear swelling but these effects gradually reduced. Meanwhile, Indirubin did not cause any body weight loss.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Kunikata T, Tatefuji T, Aga H, Iwaki K, Ikeda M, Kurimoto M. Indirubin inhibits inflammatory reactions in delayed-type hypersensitivity. Eur J Pharmacol. 2000 Dec 20;410(1):93-100.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APEX BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

