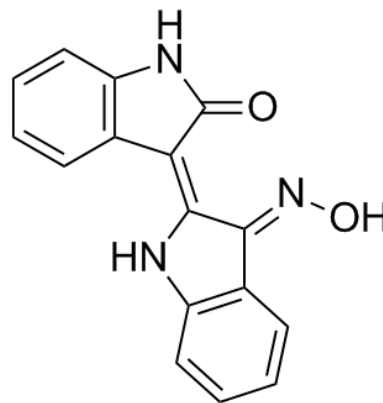


**Product Name** : Indirubin-3-monoxime  
**Cat. No.** : PC-45724  
**CAS No.** : 160807-49-8  
**Molecular Formula** : C<sub>16</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 277.2774  
**Target** : GSK-3  
**Solubility** : DMSO: ≥ 37 mg/mL



### Biological Activity

Indirubin-3'-monoxime is a potent **GSK3β** inhibitor with IC<sub>50</sub> of 22 nM, prevents tau phosphorylation both in vitro and in vivo.

Indirubin-3'-monoxime also inhibits CDKs at higher concentrations, including Cdk1/cyclin B (IC<sub>50</sub>=180 nM), Cdk2/cyclin A (IC<sub>50</sub>~500 nM), Cdk2/cyclin E (IC<sub>50</sub>=250nM), Cdk4/cyclin D1 (IC<sub>50</sub>=3.3 uM) and Cdk5/p35 (IC<sub>50</sub>=100 nM).

Indirubin-3'-monoxime reversibly inhibits the proliferation of many cells types, arresting cycling in the G2/M phase.

### References

Leclerc S, et al. *J Biol Chem*. 2001 Jan 5;276(1):251-60.

Hoessel R, et al. *Nat Cell Biol*. 1999 May;1(1):60-7.

Damiens E, et al. *Oncogene*. 2001 Jun 28;20(29):3786-97.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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