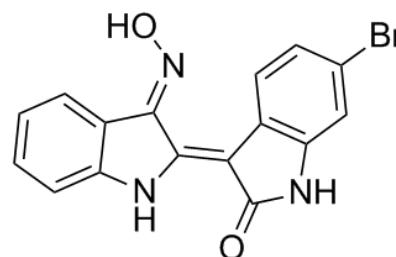


**Product Name** : BIO  
**Cat. No.** : PC-42664  
**CAS No.** : 667463-62-9  
**Molecular Formula** : C<sub>16</sub>H<sub>10</sub>BrN<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 356.1735  
**Target** : GSK-3  
**Solubility** : DMSO: ≥ 23 mg/mL



## Biological Activity

BIO (6BIO, GSK-3 Inhibitor IX, MLS 2052) is a cell-permeable derivative of 6-bromoindirubin that displays selective inhibition of GSK-3 with IC<sub>50</sub> of 5 nM.  
BIO also inhibit CDK1/Cyclin B and CDK5/p25 (IC<sub>50</sub>, 320 nM and 83 nM).  
BIO maintains the undifferentiated phenotype in HESCs and MESCs, sustains the expression of Oct-3/4, Rex-1 and Nanog.  
BIO promotes proliferation in mammalian cardiomyocytes.

## References

- Meijer L, et al. *Chem Biol.* 2003 Dec;10(12):1255-66.  
Tseng AS, et al. *Chem Biol.* 2006 Sep;13(9):957-63.  
Sato N, et al. *Nat Med.* 2004 Jan;10(1):55-63.

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

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