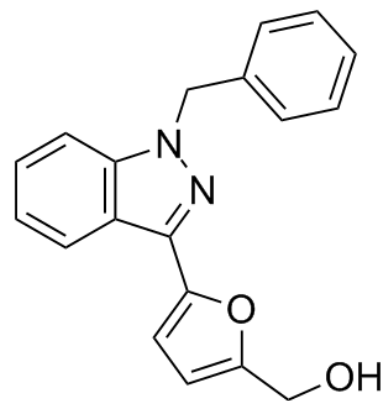


**Product Name** : Lificiguat  
**Cat. No.** : PC-44126  
**CAS No.** : 170632-47-0  
**Molecular Formula** : C<sub>19</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 304.3425  
**Target** : Guanylate Cyclase  
**Solubility** : DMSO: ≥ 51 mg/mL



### Biological Activity

Lifciguat (YC-1) is an NO-independent, superoxide-sensitive stimulator of **sGC (soluble guanylyl cyclase)** with EC<sub>50</sub> of 18.6 uM.

YC-1 elicits only minor effects on relaxation and cyclic GMP, increases the vasodilator potency of SNP and nitroglycerin (NTG) by 10 fold.

YC-1 markedly enhances SNP- and NTG-induced cyclic GMP formation at 3 uM.

### References

Mülsch A, et al. **Br J Pharmacol.** 1997 Feb;120(4):681-9.

Purohit R, et al. **Biochemistry.** 2014 Jan 14;53(1):101-14.

Friebe A, et al. **Mol Pharmacol.** 1998 Jan;53(1):123-7.

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

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