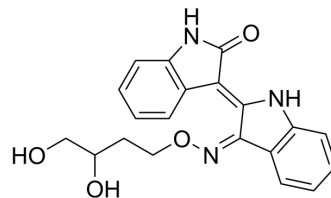


## Indirubin Derivative E804

Cat. No.:	HY-18785		
CAS No.:	854171-35-0		
Molecular Formula:	C <sub>20</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub>		
Molecular Weight:	365.38		
Target:	IGF-1R		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (342.11 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7369 mL	13.6844 mL	27.3688 mL
		5 mM	0.5474 mL	2.7369 mL	5.4738 mL
10 mM		0.2737 mL	1.3684 mL	2.7369 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.69 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (5.69 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	Indirubin Derivative E804 is a potent inhibitor of Insulin-like Growth Factor 1 Receptor (IGF1R), with an IC <sub>50</sub> of 0.65 μM for IGF1R.
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.65 μM (IGF1R) <sup>[1]</sup> .
In Vitro	Indirubin Derivative E804 is a water-soluble indirubin derivative as potent inhibitor of Insulin-like Growth Factor 1 Receptor (IGF1R), with an IC <sub>50</sub> of 0.65 μM. Indirubin Derivative E804 also inhibits CDK2/CycE with an EC <sub>50</sub> of 0.23 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Cheng X, et al. Identification of a Water-Soluble Indirubin Derivative as Potent Inhibitor of Insulin-like Growth Factor 1 Receptor through Structural Modification of the Parent Natural Molecule. J Med Chem. 2017 Jun 22;60(12):4949-4962.

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

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