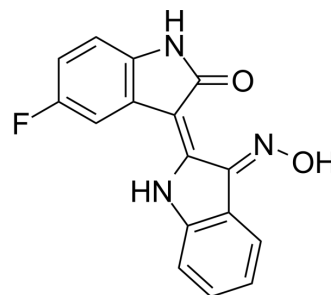


## 5'-Fluoroindirubinoxime

<b>Cat. No.:</b>	HY-103464		
<b>CAS No.:</b>	861214-33-7		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>10</sub> FN <sub>3</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	295.27		
<b>Target:</b>	FLT3		
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 83.33 mg/mL (282.22 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.3867 mL	16.9337 mL	33.8673 mL
		5 mM	0.6773 mL	3.3867 mL	6.7735 mL
10 mM		0.3387 mL	1.6934 mL	3.3867 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	5'-Fluoroindirubinoxime (5'-FIO, compound 13), an Indirubin (HY-N0117) derivative, is a potent FLT3 inhibitor, with an IC <sub>50</sub> of 15 nM <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	15 nM (FLT3) <sup>[1]</sup> .
<b>In Vitro</b>	5'-Fluoroindirubinoxime (5'-FIO, compound 13) exhibits IC <sub>50</sub> values of 1.53 μM and 1.27 μM for VEGFR2 and Aurora A, respectively <sup>[1]</sup> . 5'-Fluoroindirubinoxime (5'-FIO) exhibits IC <sub>50</sub> values of 12.2 μM, 2.1 μM, 3.4 μM and 5.1 μM in A549, SNU-638, HT-1080 and RK3E-ras cancer cells, respectively. 5'-Fluoroindirubinoxime (5'-FIO) induces the apoptosis in RK3E-ras cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	5'-Fluoroindirubinoxime (5'-FIO, 10 μmol/L/100 μL (~2.95 mg/mL) every other day beginning on day 6, S.C..) exhibits

significant anti-tumor activity in rats<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Rat tumor model based RK3E-ras cells <sup>[2]</sup> .
Dosage:	S.C..
Administration:	10 µmol/L/100 µL (~2.95 mg/mL) every other day beginning on day 6.
Result:	Effectively inhibited tumor growth.

## REFERENCES

[1]. Choi SJ, et al. Indirubin derivatives as potent FLT3 inhibitors with anti-proliferative activity of acute myeloid leukemic cells. *Bioorg Med Chem Lett*. 2010 Mar 15;20(6):2033-7.

[2]. Kim SA, et al. Antitumor activity of novel indirubin derivatives in rat tumor model. *Clin Cancer Res*. 2007 Jan 1;13(1):253-9.

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

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