

## 5'-Fluoroindirubinoxime

## Chemical Properties

CAS No. :	861214-33-7
Formula:	C <sub>16</sub> H <sub>10</sub> FN <sub>3</sub> O <sub>2</sub>
Molecular Weight:	295.27
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	5'-Fluoroindirubinoxime (5'-FIO) is a potent FLT3 inhibitor( IC <sub>50</sub> : 15 nM).
Targets(IC <sub>50</sub> )	FLT

## Solubility Information

Solubility	DMSO: 83.33 mg/mL (282.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.18 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0677 mL	0.3387 mL	0.6773 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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.

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