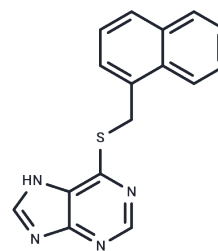


PU02

Chemical Properties

CAS No. :	313984-77-9
Formula:	C ₁₆ H ₁₂ N ₄ S
Molecular Weight:	292.36
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	PU02 (6-[(1-Naphthalenylmethyl)thio]-9H-purine) is a potent and selective antagonist of 5-HT ₃ receptor.
Targets(IC ₅₀)	Apoptosis, 5-HT Receptor

Solubility Information

Solubility	DMSO: 30 mg/mL (102.61 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: 2 mg/mL (6.84 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	3.4204 mL	17.1022 mL	34.2044 mL
5 mM	0.6841 mL	3.4204 mL	6.8409 mL
10 mM	0.342 mL	1.7102 mL	3.4204 mL
50 mM	0.0684 mL	0.342 mL	0.6841 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

Trattnig S M , Harpsoe K , Thygesen S B , et al. Discovery of a Novel Allosteric Modulator of 5-HT3 Receptors: INHIBITION AND POTENTIATION OF CYS-LOOP RECEPTOR SIGNALING THROUGH A CONSERVED TRANSMEMBRANE INTERSUBUNIT SITE[J]. Journal of Biological Chemistry, 2012, 287(30):25241-25254.

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