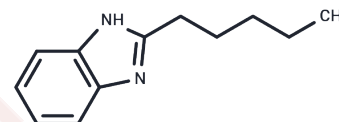


## 2-Pentyl-1H-benzo[d]imidazole

## Chemical Properties

CAS No. :	5851-46-7
Formula:	C <sub>12</sub> H <sub>16</sub> N <sub>2</sub>
Molecular Weight:	188.27
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	2-Pentyl-1H-benzo[d]imidazole is a micromolar level inhibitor of Cytochrome P450 1A1 and 2B1 and has antibacterial activity against Fusarium verticillioides.
Targets(IC50)	Anti-infection, Cytochromes P450

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3115 mL	26.5576 mL	53.1152 mL
5 mM	1.0623 mL	5.3115 mL	10.623 mL
10 mM	0.5312 mL	2.6558 mL	5.3115 mL
50 mM	0.1062 mL	0.5312 mL	1.0623 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

Patil, V., Patil, J., Rege, P., & Dere, G. (2010). Synthetic Communications: An International Journal for Rapid Communication of Synthetic Organic Chemistry. 41(1), 58-62.

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