

## 3-Formylcarbazole

## Chemical Properties

CAS No. :	51761-07-0
Formula:	C13H9NO
Molecular Weight:	195.22
Storage:	Store under nitrogen, Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	3-Formylcarbazole is a natural carbazole alkaloid with a variety of biological activities, including anticancer, anti-trichomonadal, antidiabetic, anti-inflammatory, antibacterial, and hepatoprotective effects. 3-Formylcarbazole can inhibit the release of pro-inflammatory cytokines, such as tumor necrosis factor- $\alpha$ , by macrophages, thereby exerting a protective effect against liver damage. It also exhibits antibacterial activity against <i>Mycobacterium smegmatis</i> .
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 32 mg/mL (163.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1224 mL	25.6121 mL	51.2243 mL
5 mM	1.0245 mL	5.1224 mL	10.2449 mL
10 mM	0.5122 mL	2.5612 mL	5.1224 mL
50 mM	0.1024 mL	0.5122 mL	1.0245 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

Jiang HY, et al. Cytotoxic Constituents from the Stems of Clausena lansium (Lour.) Skeels. *Molecules*. 2013; 18(9): 10768-10775.

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