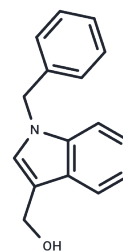


## 1-Benzyl-I3C

## Chemical Properties

CAS No. :	60941-76-6
Formula:	C <sub>16</sub> H <sub>15</sub> NO
Molecular Weight:	237.3
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	1-Benzyl-I3C is an NEDD4-1 inhibitor.
Targets(IC50)	NEDD4-1

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2141 mL	21.0704 mL	42.1408 mL
5 mM	0.8428 mL	4.2141 mL	8.4282 mL
10 mM	0.4214 mL	2.107 mL	4.2141 mL
50 mM	0.0843 mL	0.4214 mL	0.8428 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

- Quirit JG, Lavrenov SN, et al. Indole-3-carbinol (I3C) analogues are potent small molecule inhibitors of NEDD4-1 ubiquitin ligase activity that disrupt proliferation of human melanoma cells. *Biochem Pharmacol.* 2017 Mar 1;127:13-27.
- Aronchik I, et al. Target protein interactions of indole-3-carbinol and the highly potent derivative 1-benzyl-I3C with the C-terminal domain of human elastase uncouples cell cycle arrest from apoptotic signaling. *Mol Carcinog.* 2012 Nov;51(11):881-94.
- Nguyen HH, et al. 1-Benzyl-indole-3-carbinol is a novel indole-3-carbinol derivative with significantly enhanced potency of anti-proliferative and anti-estrogenic properties in human breast cancer cells. *Chem Biol Interact.* 2010 Aug 5;186(3):255-66.

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