

Product Data Sheet

Product Name: 1-Benzyl-L3C

Cat. No.: GC82388

Chemical Properties

Cas. No. 60941-76-6

Formula $C_{16}H_{15}NO$ M.Wt 237.3

Solubility DMSO: 100 mg/mL (421.41 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

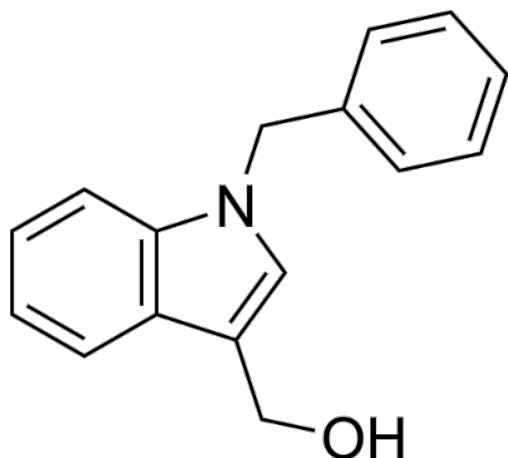
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

1-Benzyl-I3C is a NEDD4-1 inhibitor with significant anticancer activity. 1-Benzyl-I3C can directly inhibit the ubiquitination activity of NEDD4-1 with an IC_{50} of $12.3\mu M$, which is significantly better than its precursor compound I3C of $284\mu M$. 1-Benzyl-I3C and its analogs showed good effects in inhibiting the proliferation of human melanoma cells, which is roughly related to their potency as NEDD4-1 enzyme inhibitors. By combining in vitro ubiquitination experiments and thermal stability analysis, 1-Benzyl-I3C was shown to be able to bind to the catalytic HECT domain of NEDD4-1 [1].

References:

[1]. Indole-3-carbinol (I3C) analogues are potent small molecule inhibitors of NEDD4-1 ubiquitin ligase activity that disrupt proliferation of human melanoma cells

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