

Product Data Sheet

Product Name: DMU2105

Cat. No.: GC19415

Chemical Properties

Cas. No. 1821143-79-6

SMILES O=C(/C=C/C1=CC(C=CC=C2)=C2C=C1)C3=CC=CN=C3

Formula $C_{18}H_{13}NO$

M.Wt

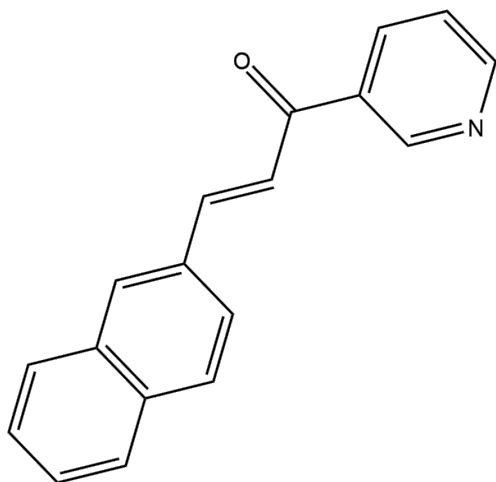
Solubility Soluble in DMSO

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.

Structure



Background

DMU2105 is a potent and specific CYP1B1 inhibitor, with IC₅₀s of 10 nM and 742 nM for CYP1B1 and CYP1A1, respectively.

DMU2105 (Compound 7k) shows 74 and 120-fold selectivity for CYP1B1 over CYP1A1 and CYP1A2. In the presence of DMU2105 however, the EC₅₀ goes down to 1 μM indicating that the cells have suffered from toxicity which may have been mediated by CYP1B1 inhibition. Un-transfected cells (HEK293: pcDNA3.1), when treated with cisplatin and DMU2105 (10×IC₅₀) do not show any

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

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perceptible decrease of cisplatin EC50 ($8.5 \mu\text{M} \pm 0.9$)[1].

[1]. Horley NJ, et al. Discovery and characterization of novel CYP1B1 inhibitors based on heterocyclic chalcones: Overcoming cisplatin resistance in CYP1B1-overexpressing lines. Eur J Med Chem. 2017 Mar 31;129:159-174.

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