

Product Data Sheet

Product Name: BRD9876

Cat. No.: GC48901

Chemical Properties

Cas. No. 32703-82-5

SMILES N#CC1=CC2=CC=C(C(C)(C)C)C=C2C=C1C#N

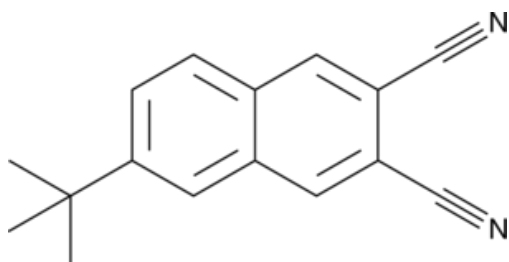
Formula C₁₆H₁₄N₂ M.Wt 234.3

Solubility Chloroform: 10 mg/ml, DMF: 1 mg/ml, DMF:PBS (pH 7.2) (1:2): 0.33 mg/ml
Storage -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

BRD9876 is an inhibitor of the kinesin spindle protein Eg5.¹ It arrests Eg5-mediated microtubule gliding, as well as inhibits Eg5 ATPase activity in the presence of microtubules, in cell-free assays. BRD9876 is cytotoxic to MM.1S stroma-independent multiple myeloma cells (IC₅₀ = 2.2 μM). It induces cell cycle arrest at the G₂/M phase in MM.1S cells when used at a concentration of 10 μM.

1. Chattopadhyay, S., Stewart, A.L., Mukherjee, S., et al. Niche-based screening in multiple myeloma identifies a kinesin-5 inhibitor with improved selectivity over hematopoietic progenitors. *Cell Rep.* 10(5):755-770 (2015)

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

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