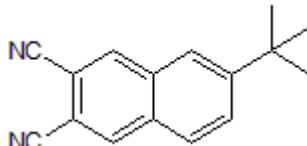


Certificate of Analysiswww.tocris.com**Product Name:** BRD 9876**Catalog No.:** 5454**Batch No.:** 1**CAS Number:** 32703-82-5**IUPAC Name:** 6-(1,1-Dimethylethyl)-2,3-naphthalenedicarbonitrile**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₆H₁₄N₂**Batch Molecular Weight:** 234.3**Physical Appearance:** White solid**Solubility:** DMSO to 50 mM
ethanol to 10 mM with sonication**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99.8% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 82.02 6.02 11.96

Found 81.81 6.01 12.04

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: BRD 9876**Catalog No.:** 5454**Batch No.:** 1

CAS Number: 32703-82-5

IUPAC Name: 6-(1,1-Dimethylethyl)-2,3-naphthalenedicarbonitrile

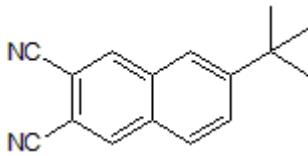
Description:

ATP non-competitive kinesin Eg5 inhibitor. Selectively inhibits microtubule-bound Eg5. Inhibits multiple myeloma cell growth ($IC_{50} = 2.2 \mu M$).

Physical and Chemical Properties:Batch Molecular Formula: $C_{16}H_{14}N_2$

Batch Molecular Weight: 234.3

Physical Appearance: White solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Store at RT**Solubility & Usage Info:**

DMSO to 50 mM
ethanol to 10 mM with sonication

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDs: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONs: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Chattopadhyay et al (2015) Niche-based screening in multiple myeloma identifies a kinesin-5 inhibitor with improved selectivity over hematopoietic progenitors. *Cell Rep.* **10** 755. PMID: 25660025.

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