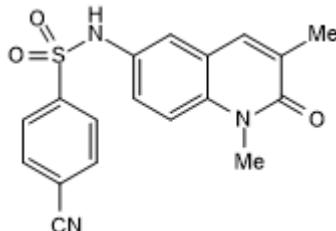


Certificate of Analysis**Product Name:** NI 42**Catalog No.:** 5786**Batch No.:** 1**CAS Number:** 1884640-99-6**IUPAC Name:** 4-Cyano-N-(1,2-dihydro-1,3-dimethyl-2-oxo-6-quinoliny)benzenesulfonamide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₈H₁₅N₃O₃S**Batch Molecular Weight:** 353.39**Physical Appearance:** Pale yellow solid**Solubility:** DMSO to 50 mM**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.52 (Dichloromethane:Methanol [5:1])**HPLC:** Shows >99.7% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 61.18 4.28 11.89

Found 61.05 4.22 11.92

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

Product Information

www.tocris.com**Product Name:** NI 42**Catalog No.:** 5786**Batch No.:** 1

CAS Number: 1884640-99-6

IUPAC Name: 4-Cyano-N-(1,2-dihydro-1,3-dimethyl-2-oxo-6-quinoliny)benzenesulfonamide

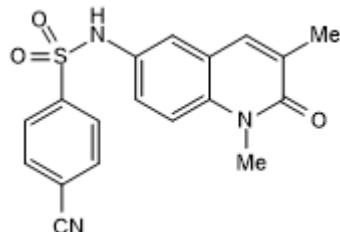
Description:

High affinity BRPF inhibitor (K_d values are 40, 210 and 943 nM for BRPF1B, 2 and 3, respectively). Also exhibits modest activity at BRD9 ($K_d = 1130$ nM). Exhibits selectivity for BRPF over 44 other bromodomains. Orally bioavailable.

Physical and Chemical Properties:Batch Molecular Formula: $C_{18}H_{15}N_3O_3S$

Batch Molecular Weight: 353.39

Physical Appearance: Pale yellow solid

Minimum Purity: >98%**Batch Molecular Structure:****Storage:** Store at -20°C**Solubility & Usage Info:**

DMSO to 50 mM

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:

Igoe *et al* (2017) Design of a biased potent small molecule inhibitor of the bromodomain and PHD finger-containing (BRPF) proteins suitable for cellular and *in vivo* studies. J.Med.Chem. PMID: 28068087.

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