

**Product Name:** NI 42

**Catalog No.:** 5786

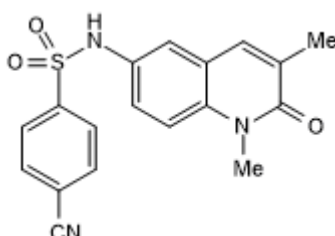
**Batch No.:** 1

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:** C<sub>18</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>S  
**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<sub>f</sub> = 0.52 (Dichloromethane:Methanol [5:1])  
**HPLC:** Shows >99.7% purity  
**<sup>1</sup>H 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

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**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:**

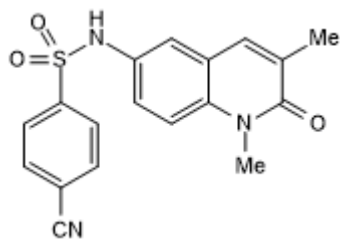
Batch Molecular Formula:  $C_{18}H_{15}N_3O_3S$

Batch Molecular Weight: 353.39

Physical Appearance: Pale yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**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.

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