

**Product Name:** BRD 6989

**Catalog No.:** 6438

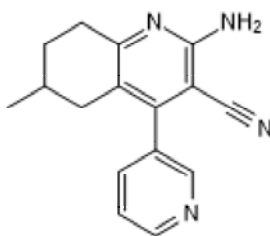
**Batch No.:** 1

CAS Number: 642008-81-9

IUPAC Name: 2-Amino-5,6,7,8-tetrahydro-6-methyl-4-(3-pyridinyl)-3-quinolinecarbonitrile

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>16</sub>N<sub>4</sub>  
**Batch Molecular Weight:** 264.33  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.7	61.1	21.2
Found	72.3	6.2	21.21

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

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**Description:**

Enhances IL-10 production. (EC<sub>50</sub> is approximately 1 μM for IL-10 production in bone marrow-derived dendritic cells). Binds and inhibits CDK8 in complex with cyclin C (IC<sub>50</sub> of approximately 200 nM). Also inhibits CDK19 in complex with cyclin C. Increases IL-10 production in activated human and murine macrophages and dendritic cells.

**Physical and Chemical Properties:**

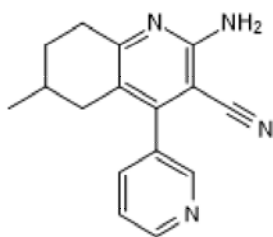
Batch Molecular Formula: C<sub>16</sub>H<sub>16</sub>N<sub>4</sub>

Batch Molecular Weight: 264.33

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

Johannessen *et al* (2017) Small-molecule studies identify CDK8 as a regulator of IL-10 in myeloid cells. *Nat.Chem.Biol.* **13** 1102. PMID: 28805801.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 20 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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