

Product Name: BMH 21

Catalog No.: 5417

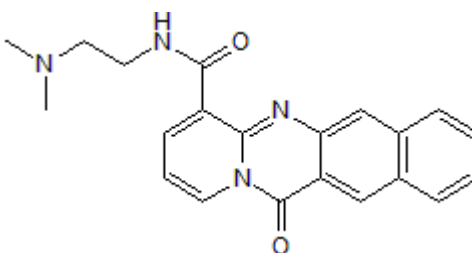
Batch No.: 1

CAS Number: 896705-16-1

IUPAC Name: *N*-[2-(Dimethylamino)ethyl]-12-oxo-12*H*-benzo[*g*]pyrido[2,1-*b*]quinazoline-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₀N₄O₂
Batch Molecular Weight: 360.41
Physical Appearance: Yellow solid
Solubility: DMSO to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.98	5.59	15.55
Found	69.59	5.6	15.54

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

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Description:

p53 pathway activator; induces expression of p53 target genes. Also RNA polymerase 1 inhibitor; promotes degradation of RPA194. Reduces viability of multiple tumor cell lines and attenuates tumor growth of A375 melanoma cell xenografts in mice.

Physical and Chemical Properties:

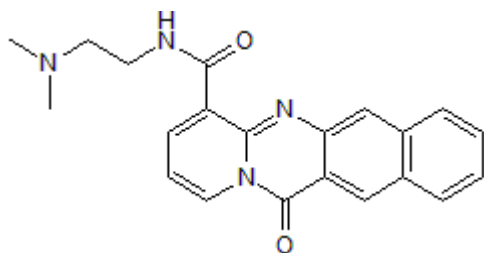
Batch Molecular Formula: C₂₁H₂₀N₄O₂

Batch Molecular Weight: 360.41

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Peltonen et al (2010) Identification of novel p53 pathway activating small-molecule compounds reveals unexpected similarities with known therapeutic agents. *PLoS ONE* **5** e12996. PMID: 20885994.

Peltonen et al (2014) A targeting modality for destruction of RNA polymerase I that possesses anticancer activity. *Cancer Cell* **13** 77. PMID: 24434211.

Colis et al (2014) Design, synthesis, and structure-activity relationships of pyridoquinazolinecarboxamides as RNA polymerase I inhibitors. *J.Med.Chem.* **57** 4950. PMID: 24847734.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 5 mM with gentle warming

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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