

Product Name: 968

Catalog No.: 5460

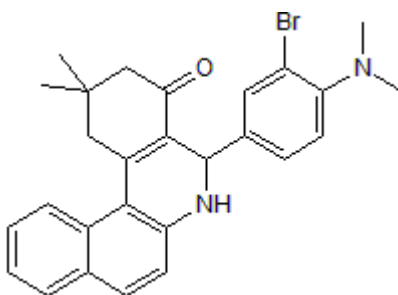
Batch No.: 1

CAS Number: 311795-38-7

IUPAC Name: 5-[3-Bromo-4-(dimethylamino)phenyl]-2,3,5,6-tetrahydro-2,2-dimethylbenzo[a]phenanthridin-4(1H)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₇BrN₂O
Batch Molecular Weight: 475.42
Physical Appearance: Off-white solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 68.21 | 5.72 | 5.89 |
| Found | 68.36 | 5.78 | 5.9 |

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

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Description:

Allosteric inhibitor of glutaminase. Blocks Rho-GTPase-dependent transformation of fibroblasts. Suppresses breast cancer cell growth and invasive activity in vitro. Also inhibits P-493 B lymphoma cell growth and reduces tumor size of P-493 cell xenografts in mice.

Physical and Chemical Properties:

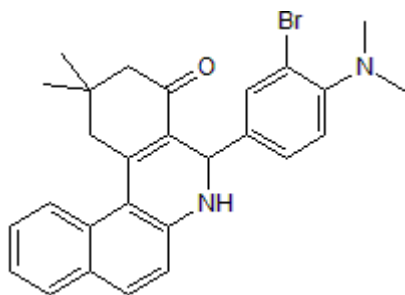
Batch Molecular Formula: C₂₇H₂₇BrN₂O

Batch Molecular Weight: 475.42

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Wang et al (2010) Targeting mitochondrial glutaminase activity inhibits oncogenic transformation. *Cancer Cell* **18** 207. PMID: 20832749.

Lu et al (2010) Cancer metabolism: is glutamine sweeter than glucose? *Cancer Cell* **18** 199. PMID: 20832746.

Stalneckner et al (2015) Mechanism by which a recently discovered allosteric inhibitor blocks glutamine metabolism in transformed cells. *Proc.Natl.Acad.Sci.U.S.A.* **112** 394. PMID: 25548170.

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 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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