

Product Name: MPC 6827 hydrochloride

Catalog No.: 5231

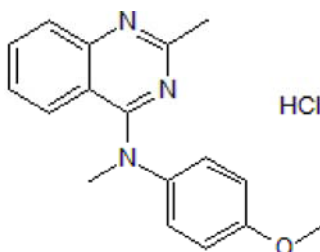
Batch No.: 1

CAS Number: 917369-31-4

IUPAC Name: *N*-(4-Methoxyphenyl)-*N*,2-dimethyl-4-quinazolinamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₇N₃O.HCl
Batch Molecular Weight: 315.8
Physical Appearance: Yellow solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.66	5.74	13.31
Found	64.48	5.79	13.33

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

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CAS Number: 917369-31-4

IUPAC Name: N-(4-Methoxyphenyl)-N,2-dimethyl-4-quinazolinamine hydrochloride

Description:

Potent inhibitor of microtubule formation (IC_{50} = 1.5 - 3.4 nM); inhibits polymerization of tubulin in vitro and disrupts microtubule formation in several cancer cell lines. Inhibits tumor growth in vitro and in vivo; exhibits pro-apoptotic characteristics. Brain penetrant.

Physical and Chemical Properties:

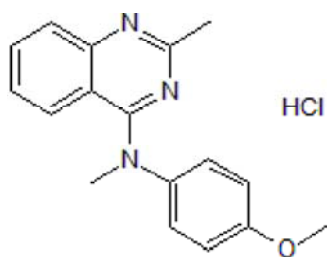
Batch Molecular Formula: $C_{17}H_{17}N_3O.HCl$

Batch Molecular Weight: 315.8

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 100 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:

Mahal *et al* (2014) Effects of the tumor-vasculature-disrupting agent verubulin and two heteroaryl analogues on cancer cells, endothelial cells, and blood vessels. *ChemMedChem*. **9** 847. PMID: 24678059.

Sirisoma *et al* (2009) Discovery of N-(4-methoxyphenyl)-N,2-dimethylquinazolin-4-amine, a potent apoptosis inducer and efficacious anticancer agent with high blood brain barrier penetration. *J.Med.Chem.* **52** 2341. PMID: 19296653.

Kasibhatla *et al* (2007) MPC-6827: a small-molecule inhibitor of microtubule formation that is not a substrate for multidrug resistance pumps. *Cancer Res.* **67** 5865. PMID: 17575155 .

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