

Certificate of Analysis

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Product Name: 4BP-TQS

Catalog No.: 4234

Batch No.: 1

CAS Number: 360791-49-7

IUPAC Name: 4-(4-Bromophenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₇BrN₂O₂S

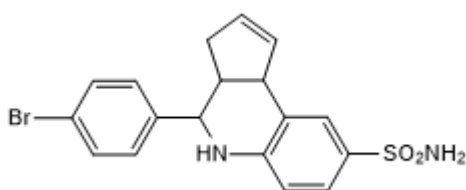
Batch Molecular Weight: 405.31

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:		Carbon	Hydrogen	Nitrogen
	Theoretical	53.34	4.23	6.91
	Found	53.35	4.14	7.05

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

Product Information

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Description:

Allosteric agonist at $\alpha 7$ nAChR. Binds at a separate site and exhibits more efficacious receptor agonism compared to acetylcholine (Cat. No. 2809), displays 8-fold lower EC_{50} value and 45-fold larger maximal response.

Physical and Chemical Properties:

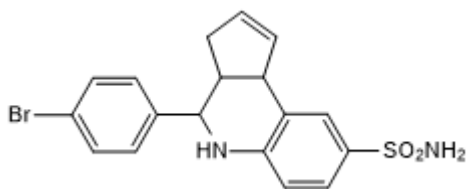
Batch Molecular Formula: $C_{18}H_{17}BrN_2O_2S$

Batch Molecular Weight: 405.31

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

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:

Gill *et al* (2011) Agonist activation of $\alpha 7$ nicotinic acetylcholine receptors via an allosteric transmembrane site. *Proc.Natl.Acad.Sci.U.S.A.* **108** 5867. PMID: 21436053.

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