

Certificate of Analysis

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Product Name: S 24795

Catalog No.: 3518

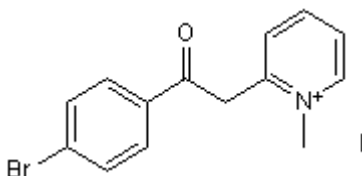
Batch No.: 2

CAS Number: 304679-75-2

IUPAC Name: 2-[2-(4-Bromophenyl)-2-oxoethyl]-1-methylpyridinium iodide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₄ H ₁₃ BrINO
Batch Molecular Weight:	418.07
Physical Appearance:	Cream solid
Solubility:	water to 10 mM with gentle warming DMSO to 100 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.16 (Dichloromethane:Methanol [95:5])
HPLC:	Shows >99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	40.22	3.13	3.35
Found	39.84	3.07	3.4

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

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Description:

Partial agonist of $\alpha 7$ nAChR. Improves mnemonic function in aged mice for the treatment of aging-related memory disturbances. Displays more efficient memory-enhancing effects than memantine (Cat. No. 0773) in Alzheimer's disease mouse models.

Physical and Chemical Properties:

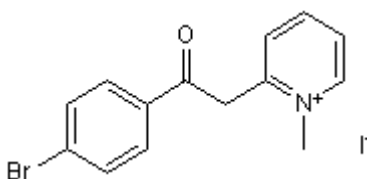
Batch Molecular Formula: C₁₄H₁₃BrINO

Batch Molecular Weight: 418.07

Physical Appearance: Cream solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 10 mM with gentle warming
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:

Beracochea et al (2008) Improvement of contextual memory by S 24795 in aged mice: comparison with memantine. *Psychopharmacology* **196** 555. PMID: 18034231.

Lagostena et al (2008) The partial $\alpha 7$ nicotine acetylcholine receptor agonist S 24795 enhances long-term potentiation at CA3-CA1 synapses in the adult mouse hippocampus. *Neuropharmacology* **54** 676. PMID: 18187166.

Marighetto et al (2008) Comparative effects of the $\alpha 7$ nicotinic partial agonist, S 24795, and the cholinesterase inhibitor, donepezil, against aging-related deficits in declarative and working memory in mice. *Psychopharmacology*. **197** 499. PMID: 18265960.

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