Product Name: Oxotremorine M

CAS Number: 3854-04-4

IUPAC Name: N,N,N-Trimethyl-4-(2-oxo-1-pyrrolidinyl)-2-butyn-1-ammonium iodide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{11}H_{19}I_{2}N_{2}O

Batch Molecular Weight: 322.19

Physical Appearance: Beige solid

Solubility: Water to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 100% purity

^1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 41.01 5.94 8.69

Found 41.03 5.91 8.68
Product Name: Oxotremorine M
Catalog No.: 1067
Batch No.: 7

CAS Number: 3854-04-4
IUPAC Name: \(N,N,N\)-Trimethyl-4-(2-oxo-1-pyrolidinyl)-2-butyn-1-ammonium iodide

Description:
Muscarinic receptor agonist. Also directly potentiates NMDA-mediated ion currents.

Physical and Chemical Properties:
- Batch Molecular Formula: \(C_{11}H_{18}I\)\(N_3\)O
- Batch Molecular Weight: 322.19
- Physical Appearance: Beige solid
- Minimum Purity: >98%
- Storage: Desiccate at -20°C

Solubility & Usage Info:
- Water 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: