Product Name: Dextromethorphan hydrobromide
CAS Number: 6700-34-1
IUPAC Name: (9α,13α,14α)-3-Methoxy-17-methylmorphinan hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{18}H_{25}NO.HBr.H_{2}O
Batch Molecular Weight: 370.33
Physical Appearance: White crystalline solid
Solubility: water to 40 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows >99.7% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = +29.4\) (Concentration = 1.5, Solvent = Water)
Product Information

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**Description:**
Non-competitive, low affinity NMDA receptor antagonist. Antitussive, anticonvulsive and neuroprotective agent.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** \(C_{18}H_{23}NO.HBr.H_2O\)
- **Batch Molecular Weight:** 370.33
- **Physical Appearance:** White crystalline solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
Water to 40 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:**