BioVision 04/15

Dextromethorphan (hydrobromide hydrate)

ALTERNATE NAME: (9α,13α,14α)-3-methoxy-17-methyl-morphinan, hydrobromide

monohydrate, DXM

CATALOG #: 2912-50, -100

AMOUNT: 50 mg, 100 mg

STRUCTURE:

• HBr [H₂O]

MOLECULAR FORMULA: C₁₈H₂₅NO • HBr [H₂O]

FORMULA WEIGHT: 370.3

CAS NUMBER: 6700-34-1

APPEARANCE: Crystalline solid

SOLUBILITY: PBS, pH 7.2 (5 mg/ml), Ethanol or DMF (20 mg/ml), DMSO

(12 mg/ml). Organic solvents should be purged in inert gas.

Aqueous solutions should not be stored for >1 day.

PURITY: ≥98%

 $\Lambda_{\rm max}$ 227, 280 nm

STORAGE: -20°C, 2 years shelf-life

DESCRIPTION: Dextromethorphan (DXM) is a morphinan with structural

similarity to levorphanol, codeine, and morphine. DXM binds to and inhibits NMDA (IC $_{50}$ = 0.55 μ M) and nicotinic receptors (IC $_{50}$ s = 0.7-3.9 μ M) and blocks receptor-gated and voltage-gated calcium channels (IC $_{50}$ = 60 μ M) and voltage-gated sodium channels (IC $_{50}$ = 78 μ M). It is a Cytochrome P450 2D6 substrate and it is converted into the active metabolite

dextrorphan in the liver.

HANDLING: Do not take internally.

RELATED PRODUCTS:

AMMC iodidie (Cat#2873) Atorvastatin (Cat#2278) Erlotinib, (Cat#2048)

Erlotinib, Hydrochloride Salt (Cat#1588)

EZSolution™ Gefitinib (Cat#2030)

Gefitinib (Cat#1589)

Irinotecan Hydrochloride (Cat#1752)

Lovastatin (Cat#1692)
Paclitaxel (Cat#1567)
Rosuvastatin (Cat#1955)
Simvastatin (Cat#1693)

FOR RESEARCH USE ONLY! Not to be used on humans.