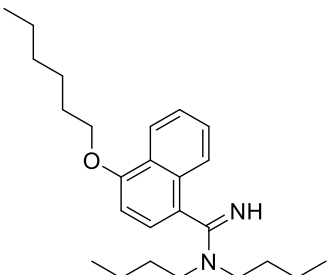


Product data sheet



MedKoo Cat#: 412178 Name: Bunamidine hydrochloride CAS#: 1055-55-6 (HCl) Chemical Formula: C ₂₅ H ₃₉ ClN ₂ O Molecular Weight: 419.05	 H-Cl
Product supplied as: Powder	
Purity (by HPLC): ≥ 98%	
Shipping conditions: Ambient temperature	
Storage conditions: Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

Bunamidine is an anti-parasitic drug, which was approved by FDA for the treatment of tapeworms in cats and dogs (Scolaban 400 tablets).

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	33.33	79.54

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.39 mL	11.93 mL	23.86 mL
5 mM	0.48 mL	2.39 mL	4.77 mL
10 mM	0.24 mL	1.19 mL	2.39 mL
50 mM	0.05 mL	0.24 mL	0.48 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

1. Trejos A, Szyfres B, Marchevsky N. Comparative value of arecoline hydrobromide and bunamidine hydrochloride for the treatment of Echinococcus granulosus in dogs. Res Vet Sci. 1975 Sep;19(2):212-3. PMID: 1172623.
2. Cruthers LR, Linkenheimer WH, Maplesden DC. Taeniacidal efficacy of SQ 21,704 in dogs by various types of oral administration and in comparison with niclosamide and bunamidine hydrochloride. Am J Vet Res. 1979 May;40(5):676-8. PMID: 573081.

7. Bioactivity

Biological target:

Bunamidine hydrochloride is a veterinary anti-platyhelminthic agent used for Echinococcus granulosus and Taenia hydatigena.

In vitro activity

TBD

Product data sheet



In vivo activity

Bunamidine, in the rat heart, caused a dose-dependent decrease in spontaneous heart rate, coronary flow and isometric systolic tension, but increased diastolic tension at 10,000 ng/ml. Bunamidine altered electrical activity by prolonging PR, QRS and QT intervals. It also produced partial heart block and ventricular standstill. Lastly, bunamidine diminished cardiac glycogen, ATP and creatine phosphate and increased tissue content of d-glucose-6-phosphate, 1-(-)-glycerol-1-phosphate and lactate. Conversion of phosphorylase b to a was increased.

Reference: Gen Pharmacol. 1978;9(2):101-12. <https://pubmed.ncbi.nlm.nih.gov/566235/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.