

Product data sheet



| | |
|---|--|
| MedKoo Cat#: 592793 Name: Quinfamide CAS: 62265-68-3 Chemical Formula: C ₁₆ H ₁₃ Cl ₂ NO ₄ Exact Mass: 353.0222 Molecular Weight: 354.18 | |
| 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:

Quinfamide is an antiamebic agent. Quinfamide can be used to treat tropical parasitic infections such as Amoebiasis and Helminthiasis

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 | 3.54 | 10.00 |

4. Stock solution preparation table:

| Concentration / Solvent Volume / Mass | 1 mg | 5 mg | 10 mg |
|---------------------------------------|---------|----------|----------|
| 1 mM | 2.82 mL | 14.12 mL | 28.23 mL |
| 5 mM | 0.56 mL | 2.82 mL | 5.64 mL |
| 10 Mm | 0.28 mL | 1.41 mL | 2.82 mL |
| 50 Mm | 0.06 mL | 0.28 mL | 0.56 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

- Naguib IA, Hassan ES, Emam AA, Abdalaleem EA. Development and Validation of HPTLC and Green HPLC Methods for Determination of a New Combination of Quinfamide and Mebendazole. *J Chromatogr Sci.* 2019 Dec 19;58(1):16-21. doi: 10.1093/chromsci/bmz100. PMID: 31879753.
- Cedillo-Rivera R, Muñoz O. In-vitro susceptibility of Giardia lamblia to albendazole, mebendazole and other chemotherapeutic agents. *J Med Microbiol.* 1992 Sep;37(3):221-4. doi: 10.1099/00222615-37-3-221. PMID: 1518040.

In vivo study

- Padilla N, Diaz R, Alarcon A, Barreda R. Antiamoebic chemoprophylaxis using quinfamide in children: a comparative study. *ScientificWorldJournal.* 2002 Apr 20;2:1070-8. doi: 10.1100/tsw.2002.174. PMID: 12805964; PMCID: PMC6009339.
- Padilla N, Díaz R, Muñoz M. Efficacy and Safety of Quinfamide versus Secnidazole in the Management of Amoebic Non-Dysenteric Colitis in Children. *Clin Drug Investig.* 2000;20(2):89-93. doi: 10.2165/00044011-200020020-00003. PMID: 23315350.

7. Bioactivity

Biological target:

Quinfamide is an investigational compound that has been used in trials for the treatment of Amoebiasis and Helminthiasis. The details of the mechanism of action are not known, but the overall effect is intraluminal immobilization of the Entamoeba.

Product data sheet



In vitro activity

The susceptibility of a strain of *Giardia lamblia* to benzimidazole carbamates, 5-nitroimidazoles, nitrofurans and other drugs was studied in vitro. Quinifamide did not inhibit the growth of the parasite at a concentration of 200 mg/L.

Reference: Clin Drug Investig. 2000;20(2):89-93. <https://pubmed.ncbi.nlm.nih.gov/1518040/>

In vivo activity

In this study, 3 groups underwent quinifamide treatment. Group 1 had patients that had three CPS analyses after 12 months; Group 2 had CPS analyses at months 3, 6, 9, and 12; and Group 3 had three CPS analyses at months 6 and 12. Group 1 had 37.6% of subjects still testing positive for *Entamoeba histolytica* cysts in stool samples; of Group 2, 12.5%; and Group 3, 23.5%. This study showed that antiamebic chemoprophylaxis can be used for amoebic infection treatment when personal hygiene and diet are not improved.

Reference: ScientificWorldJournal. 2002 Apr 20;2:1070-8. <https://pubmed.ncbi.nlm.nih.gov/12805964/>

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.