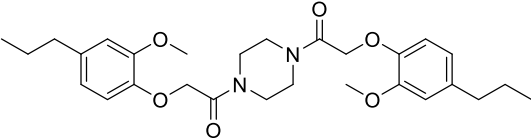


Product data sheet



MedKoo Cat#: 592899 Name: Simetride CAS#: 154-82-5 Chemical Formula: C ₂₈ H ₃₈ N ₂ O ₆ Exact Mass: 498.2730 Molecular Weight: 498.62		
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:

Simetride is used in the Reversal of resistance to vincristine in P388 leukemia. Simetride is a non-narcotic analgesic, it is an ingredient of Kyorin AP2 (a combination of Simetride and Anhydrous Caffeine (40:1)) in Japan. Kyorin AP2 is used to treat low back pain, symptomatic neuralgia, headache, menstrual pain, pharyngalgia/earache due to inflammation, toothache, postoperative pain.

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
To be determined	To be determined	To be determined

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.01 mL	10.03 mL	20.06 mL
5 mM	0.40 mL	2.01 mL	4.01 mL
10 mM	0.20 mL	1.00 mL	2.01 mL
50 mM	0.04 mL	0.20 mL	0.40 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

1. Inaba M, Maruyama E. Reversal of resistance to vincristine in P388 leukemia by various polycyclic clinical drugs, with a special emphasis on quinacrine. Cancer Res. 1988 Apr 15;48(8):2064-7. PMID: 3349478.

In vivo study

To be determined

7. Bioactivity

Biological target:

Simetride is an analgesic agent.

In vitro activity

In vincristine-resistant P388 leukemia cells, simetride remarkably potentiated the cytotoxicity of vincristine against the resistant cells.

Reference: Cancer Res. 1988 Apr 15;48(8):2064-7. <https://pubmed.ncbi.nlm.nih.gov/3349478/>

Product data sheet



In vivo activity

To be determined

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.