

Product data sheet



MedKoo Cat#: 558588 Name: Oteracil potassium CAS: 2207-75-2 Chemical Formula: C ₄ H ₂ KN ₃ O ₄ Exact Mass: 194.9682 Molecular Weight: 195.1753	
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:

Oteracil potassium is an antagonist of urate oxidase. It is used to induce hyperuricemia in mice.

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
PBS (pH 7.2)	0.3	1.54
Water	5.67	29.03

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	5.12 mL	25.62 mL	51.24 mL
5 mM	1.02 mL	5.12 mL	10.25 mL
10 mM	0.51 mL	2.56 mL	5.12 mL
50 mM	0.10 mL	0.51 mL	1.02 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. Eräranta A, Kurra V, Tahvanainen AM, Vehmas TI, Kööbi P, Lakkisto P, Tikkanen I, Niemelä OJ, Mustonen JT, Pörsti IH. Oxonic acid-induced hyperuricemia elevates plasma aldosterone in experimental renal insufficiency. *J Hypertens.* 2008 Aug;26(8):1661-8. doi: 10.1097/HJH.0b013e328303205d. PMID: 18622246.

2. Shirasaka T, Shimamoto Y, Fukushima M. Inhibition by oxonic acid of gastrointestinal toxicity of 5-fluorouracil without loss of its antitumor activity in rats. *Cancer Res.* 1993 Sep 1;53(17):4004-9. PMID: 7689420.

7. Bioactivity

Biological target:

Oteracil potassium is an antagonist of urate oxidase.

In vitro activity

TBD

In vivo activity

Product data sheet



On p.o. administration of 5-FU (2 mg/kg) and a potent inhibitor of 5-FU degradation to Yoshida sarcoma-bearing rats, oxonic acid (10 mg/kg) was found to inhibit the formation of 5-fluorouridine-5'-monophosphate from 5-FU and its subsequent incorporation into the RNA fractions of small and large intestine but not of tumor and bone marrow tissues.

Reference: Cancer Res. 1993 Sep 1;53(17):4004-9. <https://pubmed.ncbi.nlm.nih.gov/7689420/>

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.