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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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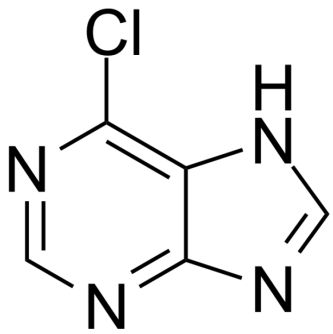
6-Chloropurine

Cat. No.:	HY-Y0247
CAS No.:	87-42-3
Molecular Formula:	$C_5H_3ClN_4$
Molecular Weight:	154.56
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 27.5 mg/mL (177.92 mM; Need ultrasonic)

H_2O : 3 mg/mL (19.41 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	6.4700 mL	32.3499 mL	64.6998 mL
5 mM	1.2940 mL	6.4700 mL	12.9400 mL
10 mM	0.6470 mL	3.2350 mL	6.4700 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.75 mg/mL (17.79 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (17.79 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (17.79 mM); Clear solution
4. Add each solvent one by one: PBS
   Solubility: 2 mg/mL (12.94 mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

Description

6-Chloropurine is a building block in chemical synthesis. Intermediate in the preparation of 9-alkylpurines and 6-rnercaptopurine. Antitumor activities[1].

In Vivo

6-Chloropurine to S-(6-punnyl)glutathione and further metabolism of S-(6-punnyl)glutathione to 6-mercaptopunne may be involved in the mechanism of the 6-Chloropurine-induced antitumor activity[1]. 6-chloropurine and azaserine have been

	shown to have synergic antitumor properties in a variety of mouse neoplasms when administered simultaneously[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hwang IY, et al. Detection and mechanisms of formation of S-(6-purinyl)glutathione and 6-mercaptopurine in rats given 6-chloropurine. J Pharmacol Exp Ther. 1993 Jan;264(1):41-6.

[2]. Sartorelli AC, et al. Comparative studies on the in vivo action of 6-chloropurine, 6-chloropurine ribonucleoside, and 6-chloro-9-ethylpurine on sarcoma 180 ascites cells. J Pharmacol Exp Ther. 1961 Oct;134:123-8.

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