Cyclopenthiazide

Cat. No.: HY-109542

CAS No.: 742-20-1

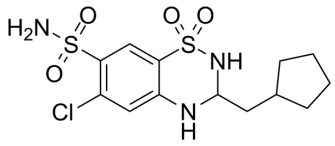
Molecular Formula: $C_{13}H_{18}ClN_3O_4S_2$

Molecular Weight: 379.88

Target: Others

Pathway: Others

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (329.05 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	2.6324 mL	13.1621 mL	26.3241 mL
	5 mM	0.5265 mL	2.6324 mL	5.2648 mL
	10 mM	0.2632 mL	1.3162 mL	2.6324 mL

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

BIOLOGICAL ACTIVITY

Description

Cyclopenthiazide is a benzothiadiazine diuretic with antihypertensive properties. Cyclopenthiazide exerts a diuretic effect by inhibiting the reabsorption of sodium chloride and water at the distal renal tubules. Cyclopenthiazide increases the excretory capacity of the rat kidney[1].

In Vivo

Cyclopenthiazide (0.5 mg/kg; i.p.; daily, for 3 days; female Wistar rats) increases the excretion of p-aminohippurate (PAH) [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female Wistar rats[1]
Dosage:	0.5 mg/kg
Administration:	Intraperitoneal injection; daily, for 3 days
Result:	Stimulated p-aminohippurate (PAH) excretion.

REFERENCES

[1]. Bräunlich H. Postnatal development of kidney function in rats receiving thyroid hormones. Exp Clin Endocrinol. 1984 May;83(3):243-50.

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