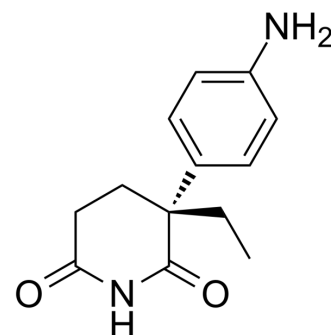


(R)-(+)-Aminoglutethimide

Cat. No.:	HY-W392925		
CAS No.:	55511-44-9		
Molecular Formula:	C ₁₃ H ₁₆ N ₂ O ₂		
Molecular Weight:	232.28		
Target:	Cytochrome P450		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (430.51 mM; Need ultrasonic)
 H₂O : 4.81 mg/mL (20.71 mM; ultrasonic and warming and adjust pH to 3 with HCl and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.3051 mL	21.5257 mL	43.0515 mL
	5 mM	0.8610 mL	4.3051 mL	8.6103 mL
	10 mM	0.4305 mL	2.1526 mL	4.3051 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (10.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (10.76 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (10.76 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-(+)-Aminoglutethimide is a potent and orally active aromatase inhibitor. (R)-(+)-Aminoglutethimide has the potential for the research of breast cancer^[1].

IC₅₀ & Target

Aromatase

In Vivo

(R)-(+)-Aminoglutethimide (5, 50 mg/kg; p.o.) eliminates within 48 hr into urine and feces, mostly in the form of metabolites

[2].

(R)-(+)-Aminoglutethimide (1, 10, 50 mg/kg; i.p.; 60 min before training) dose not induce any significant effect in 1 and 10 mg/kg, induces a loss of retention at 50 mg/kg in day-old chicks^[3].

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

REFERENCES

[1]. Dai Sig Im, et al. Chemo-enzymatic synthesis of (R)-(+)-aminoglutethimide by kinetic resolution of (±)-4-cyano-4-phenyl-1-hexanol. *Journal of Molecular Catalysis B: Enzymatic*. 2003, 26:185–191.

[2]. Egger H, Bartlett F, Itterly W, Rodebaugh R, Shimanskas C. Metabolism of aminoglutethimide in the rat. *Drug Metab Dispos*. 1982 Jul-Aug;10(4):405-12.

Caution: Product has not been fully validated for medical applications. For research use only.

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