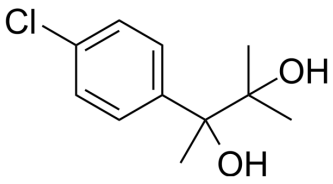
Phenaglycodol

Cat. No.:	HY-105845
CAS No.:	79-93-6
Molecular Formula:	$C_{11}H_{15}ClO_2$
Molecular Weight:	214.69
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Phenaglycodol belongs to the group of butanediolsa with anxiolytic and anticonvulsant porperties. Phenaglycodol has orally bioactivity[1].

In Vivo

Phenaglycodol (20 mg/kg, i.p.,1 time) has antiepileptic activity in cat[1].
Phenaglycodol (55-80 mg/kg, i.p., 1 time) has antiepileptic activity in mice[1].
Phenaglycodol (50-100 mg/kg, i.g., 1 time) has antiepileptic activity in monkey[1].
Phenaglycodol (130mg/kg, i.p., 1 time) lowers the concentration of Meprobamate in serum and brain[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Cat[1]
Dosage:	20 mg/kg
Administration:	Intraperitoneal Injection (i.p.)
Result:	Showed that cat became quiet.

Animal Model:	Monkey[1]
Dosage:	50-100 mg/kg
Administration:	Intragastric Gavage (i.g.)
Result:	Showed that monkey became less aggressive or less fearful.

Animal Model:	Mice[1]
Dosage:	55-80 mg/kg
Administration:	Intraperitoneal Injection (i.p.)
Result:	Showed a reduction in spontaneous activity and sit quietly.

Animal Model:	Female Rats(Sprague-Dawley, 170g)[2]
Dosage:	130 mg/kg
Administration:	Intraperitoneal Injection (i.p.)
Result:	Showed that the decrease of Meprobamate concentration in the serum and brain of the pretrealed rats was more rapid than that in control rats.

REFERENCES

[1]. G T JONES, et al. Mode of action of phenaglycodol, a new neurosedative agent. Proc Soc Exp Biol Med. 1956 Dec;93(3):528-31.

[2]. R. KATO, et al. Induced Increase o f M eprobam ate M etabolism in R ats T reated w ith P hénobarbital or Phenaglycodol. Pharmacology (1970) 3 (2): 95–100.

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