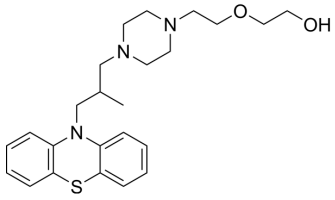
Dixyrazine

Cat. No.:	HY-U00153
CAS No.:	2470-73-7
Molecular Formula:	$C_{24}H_{33}N_3O_2S$
Molecular Weight:	427.6
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (233.86 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3386 mL	11.6932 mL	23.3863 mL
	5 mM	0.4677 mL	2.3386 mL	4.6773 mL
	10 mM	0.2339 mL	1.1693 mL	2.3386 mL

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

BIOLOGICAL ACTIVITY

Description

Dixyrazine, a phenothiazine derivative, can prevent brain oedema induced by intracarotid injection of protamine sulphate.

In Vivo

Pretreatment with Dixyrazine 10 mg/kg completely prevents the brain oedema and significantly reduces the albumin increase in cerebrospinal fluid (CSF)[1]. The phenothiazine Dixyrazine (5 mg/kg i.v.) has minimal, transient hypotensive effects but significantly reduces the leakage of ^{126}I labelled serum albumin in conscious rats subjected to acute hypertension provoked by i.v. Adrenaline or Bicuculline. The diameters of pial arteries and veins are continuously measured with a multichannel videoangiometer through a closed cranial window in anesthetized rats before and after i.v. injection of Dixyrazine (5 mg/kg). Dixyrazine, 5 mg /kg, induces a slight transitory decrease in blood pressure (10-20 mm Hg). Maximum MAP is slightly but not significantly lower in Dixyrazine-treated rats[2].

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

PROTOCOL

Animal Administration [2]	Rats[2] Male Sprague-Dawley rats (200-225 g) are used. Evans blue and ^{125}I-HSA are used as tracers, and controls are compared to rats pretreated with Dixyrazine 5 mL/kg or 15 mg/kg. The lower dose is given 15-20 min before the infusion of urea (that is the same interval as in the hypertension experiments). Because of larger effects on blood pressure with higher doses, the interval has to be extended to 40 min in this group. The radioactivity is determined in the right and left hemisphere and related to the activity in the blood. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Westergren I, et al. Dixyrazine, a phenothiazine derivative, can prevent brain oedema induced by intracarotid injection of protamine sulphate. Acta Neurochir (Wien). 1991;113(3-4):171-5.

[2]. Johansson BB, et al. Phenothiazine-mediated protection of the blood-brain barrier during acute hypertension. Stroke. 1982 Mar-Apr;13(2):220-5.

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