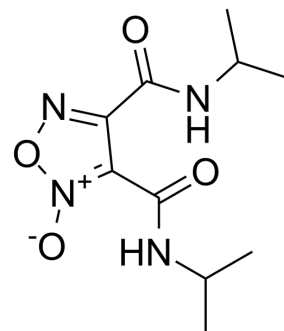


Ipramidil

Cat. No.:	HY-U00172		
CAS No.:	83656-38-6		
Molecular Formula:	C ₁₀ H ₁₆ N ₄ O ₄		
Molecular Weight:	256.26		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Ipramidil (C80-1324) is a furoxan compound. Ipramidil (C80-1324) reveals marked dilator activity in the coronary circulation of isolated working hearts.
In Vitro	<p>The vasodilator action of Ipramidil (C80-1324) on coronary vessels is more potent than that of GTN and appears to be biphasic. The increase in coronary flow caused by furoxans as well as by glyceryl trinitrate (GTN) is blunted upon coinfusion of the guanylate cyclase inhibitor methylene blue. NO sign of tachyphylaxis of the vasodilator response is seen upon the repeated or continuous (60 min) application of Ipramidil at a concentration of 1 µg/mL, which induces an increase in coronary flow of 67±9% (N=5). Moreover, the vasodilator effect of Ipramidil is not different from control when Ipramidil is given after a 60 min preinfusion of 10 µg/mL GTN, i.e. under conditions of nitrate tolerance (P=0.493, N=3). However, when GTN is applied after a 30 min infusion of Ipramidil, its dilator response is significantly diminished (P=0.006, N=3). Unlike GTN, Ipramidil concentration independently increases the spontaneous beating rate of the hearts by 10-30 beats per minute and appeared to have a weak positive inotropic effect^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Feelisch M, et al. Thiol-mediated generation of nitric oxide accounts for the vasodilator action of furoxans. *Biochem Pharmacol.* 1992 Sep 25;44(6):1149-57.

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

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