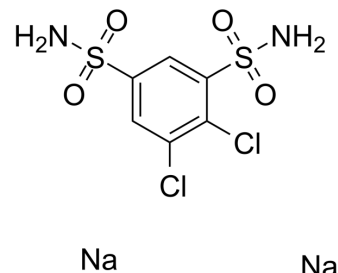


Dichlorphenamide disodium

Cat. No.:	HY-B0397A
CAS No.:	76382-13-3
Molecular Formula:	C ₆ H ₆ Cl ₂ N ₂ Na ₂ O ₄ S ₂
Molecular Weight:	351.14
Target:	Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dichlorphenamide (Diclofenamide) disodium is an orally active, specific, carbonic anhydrase inhibitor. Dichlorphenamide can reduce intraocular pressure by inhibiting the secretion of water from the eye. Dichlorphenamide can be used for glaucoma research ^[1] .								
In Vivo	<p>Dichlorphenamide disodium can reduce IOP locally in male albino rabbits^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male albino rabbits (approximately 2.5 kg)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>50 µL 10% aqueous solutions of dichlorphenamide sodium or 2 mg/kg, 6 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Eye drop of 50 µL or oral gavage of 2 mg/kg or 6 mg/kg 5 hours</td> </tr> <tr> <td>Result:</td> <td>Showed significant decrease in IOP at 30 min by instilling into eyes and decrease in IOP only at 1 h by orally after drug administration. And demonstrated that drug levels were significantly higher in the iris ciliary body and lower in the serum by instilling compared to oral administration.</td> </tr> </table>	Animal Model:	Male albino rabbits (approximately 2.5 kg) ^[1]	Dosage:	50 µL 10% aqueous solutions of dichlorphenamide sodium or 2 mg/kg, 6 mg/kg	Administration:	Eye drop of 50 µL or oral gavage of 2 mg/kg or 6 mg/kg 5 hours	Result:	Showed significant decrease in IOP at 30 min by instilling into eyes and decrease in IOP only at 1 h by orally after drug administration. And demonstrated that drug levels were significantly higher in the iris ciliary body and lower in the serum by instilling compared to oral administration.
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CUSTOMER VALIDATION

- EMBO Rep. 2022 Apr 11;e53932.

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REFERENCES

[1]. V J Lotti, et al. Topical ocular hypotensive activity and ocular penetration of dichlorphenamide sodium in rabbits. Graefes Arch Clin Exp Ophthalmol. 1984;222(1):13-9. doi: 10.1007/BF02133771.

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

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