Dichlorphenamide

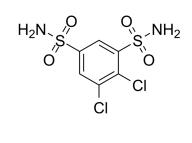
Cat. No.:	HY-B0397		
CAS No.:	120-97-8		
Molecular Formula:	C ₆ H ₆ Cl ₂ N ₂ C	0 ₄ S ₂	
Molecular Weight:	305.16		
Target:	Carbonic Ar	nhydrase	
Pathway:	Metabolic E	nzyme/P	rotease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	3.2770 mL	16.3848 mL	32.7697 ml	
		5 mM	0.6554 mL	3.2770 mL	6.5539 mL	
		10 mM	0.3277 mL	1.6385 mL	3.2770 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
Solubilit 2. Add eac Solubilit 3. Add eac	Solubility: ≥ 2.5 m	dd each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline olubility: ≥ 2.5 mg/mL (8.19 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.19 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.19 mM); Clear solution					

BIOLOGICAL ACTIV	
Description	Dichlorphenamide (Diclofenamide) 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	Dichlorphenamide can reduce IOP locally in male albino rabbits ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Product Data Sheet

Animal Model:	Male albino rabbits (approximately 2.5 kg)
Dosage:	$50\mu\text{L}$ 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.

CUSTOMER VALIDATION

• EMBO Rep. 2022 Apr 11;e53932.

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REFERENCES

[1]. Kanski, J.J., Carbonic anhydrase inhibitors and osmotic agents in glaucoma. Carbonic anhydrase inhibitors. Br J Ophthalmol, 1968. 52(8): p. 642-3.

[2]. Rucquoy, M. and L. Sorel, Diclofenamide in the treatment of therapy-resistant epilepsy. Acta Neurol Belg, 1978. 78(3): p. 174-82.

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

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