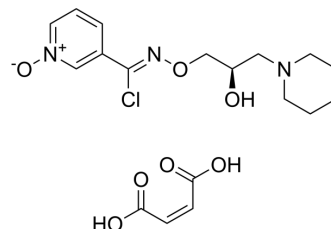


Arimoclomol maleate

Cat. No.:	HY-106443A
CAS No.:	289893-26-1
Molecular Formula:	C ₁₈ H ₂₄ ClN ₃ O ₇
Molecular Weight:	429.85
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (581.60 mM; Need ultrasonic)						
	H ₂ O : 100 mg/mL (232.64 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.3264 mL	11.6320 mL	23.2639 mL
				5 mM	0.4653 mL	2.3264 mL	4.6528 mL
10 mM				0.2326 mL	1.1632 mL	2.3264 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (232.64 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution						
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Arimoclomol maleate (BRX-220) is a co-inducer of heat shock proteins (HSP) ^[1] . Arimoclomol protects motor neurons by enhancing Hsp expression, thus directly affecting protein aggregation and clearance of misfolded assemblies via the proteasome-ubiquitin system ^[2] .
IC ₅₀ & Target	HSP

In Vivo

Arimoclomol (BRX-220; 20 mg/kg; orally administered for 5 d) has a protective effect against cholecystokinin-octapeptide (CCK)-induced acute pancreatitis^[1].

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

Animal Model:	Male Wistar rats weighing 240 to 270 g ^[1]
Dosage:	20 mg/kg
Administration:	Administered intragastrically, for 5 days
Result:	Had a protective effect against CCK-induced acute pancreatitis.

CUSTOMER VALIDATION

- Exp Eye Res. 2019 Nov;188:107792.
- University of Graz. Institute of Pharmaceutical Science. 2021 Nov.

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REFERENCES

- [1]. Rakonczay Z Jr, et al. Nontoxic heat shock protein coinducer BRX-220 protects against acute pancreatitis in rats. Free Radic Biol Med. 2002 Jun 15;32(12):1283-92.
- [2]. Phukan J. Arimoclomol, a coinducer of heat shock proteins for the potential treatment of amyotrophic lateral sclerosis. IDrugs. 2010 Jul;13(7):482-96.

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

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