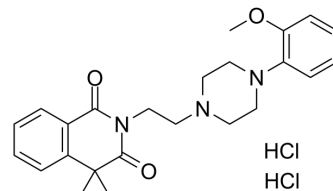


ARC 239 dihydrochloride

Cat. No.:	HY-12709A
CAS No.:	55974-42-0
Molecular Formula:	C ₂₄ H ₃₁ Cl ₂ N ₃ O ₃
Molecular Weight:	480.43
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
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 : 125 mg/mL (260.18 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0815 mL	10.4073 mL	20.8147 mL
		5 mM	0.4163 mL	2.0815 mL	4.1629 mL
		10 mM	0.2081 mL	1.0407 mL	2.0815 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.33 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	ARC 239 dihydrochloride is a selective α ₂ B/2C adrenoceptor antagonist (pK _d values are 5.95, 7.41 and 7.56 at α ₂ A, α ₂ B, and α ₂ C receptors respectively). ARC 239 dihydrochloride binds to CHO cell membranes expressing human recombinant α ₂ A-, α ₂ B- or α ₂ C-adrenoceptor subtypes with pK _i s of 5.6, 8.4, and 7.08, respectively ^[1] .	
IC₅₀ & Target	Alpha-2B adrenergic receptor	5-HT _{1A} Receptor

REFERENCES

[1]. M R Corboz, et al. Pharmacological characterization of alpha 2-adrenoceptor-mediated responses in pig nasal mucosa. Auton Autacoid Pharmacol. 2003 Aug;23(4):208-19.

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

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