ARC 239

Cat. No.: HY-12709

CAS No.: 67339-62-2

Molecular Formula: $C_{24}H_{29}N_3O_3$

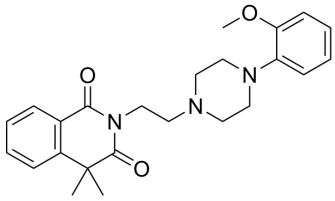
Molecular Weight: 407.51

Target: Adrenergic Receptor; 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (122.70 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4539 mL	12.2696 mL	24.5393 mL
	5 mM	0.4908 mL	2.4539 mL	4.9079 mL
	10 mM	0.2454 mL	1.2270 mL	2.4539 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ARC 239 is an α2B/C-adrenergic receptor antagonist with pK_i of 7.06 and 6.95 for rat kidney α2B and human α2C, respectively. ARC 239 also inhibits 5-HT1A receptor with a K_i of 63.1 nM[1][2].

IC_{50} & Target			
	human α2C-adrenoceptor 6.95 (pKi)	Alpha-2C adrenergic receptor 7.06 (pKi)	5-HT_{1A} Receptor 63.1 nM (Ki)

REFERENCES

[1]. K T Gavin, et al. Alpha 2C-adrenoceptors mediate contractile responses to noradrenaline in the human saphenous vein. Naunyn Schmiedebergs Arch Pharmacol. 1997 Mar;355(3):406-11.

[2]. J J Meana, et al. The subtype-selective alpha 2-adrenoceptor antagonists BRL 44408 and ARC 239 also recognize 5-HT1A receptors in the rat brain. Eur J Pharmacol. 1996 Oct 3;312(3):385-8.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA