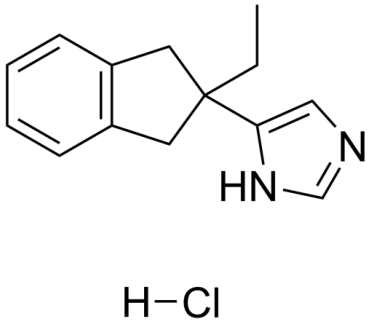
Data Sheet

Product Name:	Atipamezole (hydrochloride)
Cat. No.:	CS-3389
CAS No.:	104075-48-1
Molecular Formula:	$C_{14}H_{17}ClN_2$
Molecular Weight:	248.75
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : ≥ 47 mg/mL;H_2O : 75 mg/mL (ultrasonic;warming)



BIOLOGICAL ACTIVITY:

Atipamezole (MPV-1248) hydrochloride is a potent **α_2-adrenoceptor antagonist** with a **K_i** of 1.6 nM[1]. IC50 & Target: Ki: 1.6 nM[1] ***In Vitro:*** The affinity of atipamezole for α_2-adrenoceptors and its α_2/α_1 selectivity ratio are considerably higher than yohimbine. Atipamezole is not selective for subtypes of α_2-adrenoceptors. It has negligible affinity for 5-HT_1, 5-HT2 and I2 bindings sites[1]. ***In Vivo:*** Atipamezole is well tolerated in rodents. In anesthetized, normotensive rats, the cardiovascular effects of atipamezole (0.01–1 mg/kg, i.v.) are rather modest. Atipamezole is commonly used by veterinarians to awaken animals from sedation or anesthesia. Atipamezole increases sexual activity in rats and monkeys. In animals with sustained nociception, atipamezole increases pain-related responses by blocking the noradrenergic feedback inhibition of pain. Atipamezole at low doses has beneficial effects on alertness, selective attention, planning, learning, and recall in experimental animals, but not necessarily on short-term working memory[1].

References:

[1]. Pertovaara A, et al.Pharmacological properties, central nervous system effects, and potential therapeutic applicationsof atipamezole, a selective alpha2-adrenoceptor antagonist. CNS Drug Rev. 2005 Autumn;11(3):273-88.

CAIndexNames:

1H-Imidazole, 5-(2-ethyl-2,3-dihydro-1H-inden-2-yl)-, hydrochloride (1:1)

SMILES:

CCC1(C2=CN=CN2)CC3=C(C=CC=C3)C1.[H]Cl

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