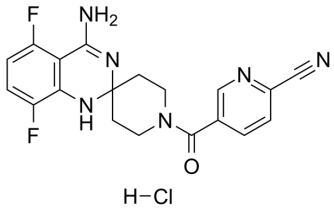
AR-C102222 hydrochloride

Cat. No.:	HY-12122A
CAS No.:	1781934-50-6
Molecular Formula:	$C_{19}H_{17}ClF_2N_6O$
Molecular Weight:	418.83
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	AR-C102222 hydrochloride is a potent, competitive, orally active and highly selective inducible nitric oxide synthase (iNOS) inhibitor, with an IC_{50} of 37 nM[1]. AR-C102222 hydrochloride has antinociception and anti-inflammatory activities[2].
In Vivo	AR-C102222 (3, 10, 30, 100 mg/kg, P.O.) attenuates arachidonic acid-induced ear inflammation and possesses anti-inflammatory activity[2]. AR-C102222 shows good efficacy in a rat adjuvant-induced arthritis model[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Balb/c mice (20-25 g)[2].
Dosage:	3, 10, 30, 100 mg/kg.
Administration:	P.O. 55 min before the administration of 0.6% acetic acid (i.p., 1 mL/100 g volume).
Result:	Significantly inhibited arachidonic acid-induced ear inflammation following a dose of 100 mg/kg of has a maximal inhibition of approximately 79%.

REFERENCES

[1]. Tinker AC, et al. 1,2-Dihydro-4-quinazolinamines: potent, highly selective inhibitors of inducible nitric oxide synthase which show antiinflammatory activity in vivo. J Med Chem. 2003 Mar 13;46(6):913-6.

[2]. LaBuda CJ, et al. Antinociceptive activity of the selective iNOS inhibitor AR-C102222 in rodent models of inflammatory, neuropathic and post-operative pain. Eur J Pain. 2006 Aug;10(6):505-12. Epub 2005 Aug 24.

[3]. Yoon J, et al. Syntheses of 1,2,3-triazolyl salicylamides with inhibitory activity on lipopolysaccharide-induced nitric oxide production. Bioorg Med Chem Lett. 2011 Apr 1;21(7):1953-7.

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