1400W . dihydrochloride
ALX-270-073
iNOS inhibitor

Product Number/Sizes
ALX-270-073-M005  5 mg
ALX-270-073-M025  25 mg

Replaces Prod. #: BML-CN268

A slow, tight binding and highly selective inhibitor of inducible nitric oxide synthase (iNOS/NOS II) in vitro and in vivo. Binds tightly to iNOS with a K_d of 7nM. In contrast, inhibition of nNOS and eNOS is weaker and rapidly reversible with K_i values of 2 and 50μM respectively. Inhibits tumor growth in vivo. Prevents circulatory failure but not organ injury induced by endotoxin. Displays protective effects in oxygen-deprived brain slices.

Product Details
FORMULA:  C_{10}H_{15}N_{3} . 2HCl
MW:  250.17
SOURCE:  Synthetic.
CAS:  214358-33-5
PURITY:  ≥95% (TLC)
IDENTITY:  Determined by NMR.
APPEARANCE:  White to off-white powder.
SOLUBILITY:  Soluble in water (up to 25mg/ml), methanol or DMSO.
SHIPPING:  Ambient Temperature
SHORT TERM STORAGE:  -20°C
LONG TERM STORAGE:  -20°C
HANDLING:  Hygroscopic.
REGULATORY STATUS:  RUO - Research Use Only

Product Literature References
Differential Effects of D9 Tetrahydrocannabinol (THC)- and Cannabidiol (CBD)-Based Cannabinoid Treatments on Macrophage Immune Function In Vitro and on Gastrointestinal Inflammation in a Murine Model Z. Yekhtin, et al. Biomedicines 10 1793 (2022)
GPR30 Attenuates Myocardial Fibrosis in Diabetic Ovariectomized Female Rats: Role of iNOS Signaling X. Wang, et al. DNA Cell Biol. 37 821 (2018)


Effects of 1400W, a potent selective inducible NOS inhibitor, on histamine- and leukotriene D4-induced relaxation of isolated guinea pig nasal mucosa Y. Chiba, et al. Nitric Oxide 15 142 (2006)


The inhibitory potency and selectivity of arginine substrate site nitric-oxide synthase inhibitors is solely determined by their affinity toward the different isoenzymes R. Boer, et al. Mol. Pharmacol. 58 1026 (2000)


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