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 Specifications
FORMULA: C_{10}H_{15}N_{3} . 2HCl
MW: 177.3 . 73.0
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
SHORT TERM STORAGE: -20°C
LONG TERM STORAGE: -20°C
HANDLING: Hygroscopic.

Product Literature References
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 naso 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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