



**Catalog # 10-2137**

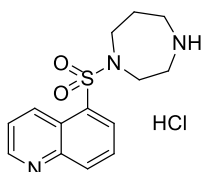
**Fasudil HCl**

CAS# 105628-07-7

HA-1077

1-(5-Isoquinolinesulfonyl)homopiperazine HCl

Lot # X102025



Rho-associated kinase inhibitor ( $IC_{50} = 1.9 \mu M$  and  $10.7 \mu M$  for Rho-associated kinase II and Rho-associated kinase respectively)<sup>1</sup>. Inhibits other kinases including cyclic nucleotide-dependent protein kinases.<sup>1</sup> Reduces tryptamine-evoked vasopressor responses.<sup>2</sup> Attenuates bleomycin-induced pulmonary fibrosis in a mouse model.<sup>3</sup> Clinically useful vasodilator.

- 1) Davies *et al.* (2000), *Specificity and mechanism of action of some commonly used protein kinase inhibitors*; Biochem. J., **351** 95
- 2) Anwar *et al.* (2013), *Signal transduction and modulating pathways in tryptamine-evoked vasopressor responses of the rat isolated perfused mesenteric bed*; Vascu.Pharmacol., **58** 140
- 3) Jiang *et al.* (2012), *Fasudil, a rho-kinase inhibitor, attenuates bleomycin-induced pulmonary fibrosis in mice*; Int. J. Mol. Sci., **13** 8293

**PHYSICAL DATA**

Molecular Weight:	327.84
Molecular Formula:	$C_{14}H_{17}N_3O_2S \cdot HCl$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 75 mg/ml) or Water (up to 100 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at $-20^{\circ}C$ for up to 1 month.

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