



Data Sheet

Research Use Only

Compound Name

Fasudil Hydrochloride

Catalog Number

SM49

Activity

Fasudil hydrochloride is a cyclic nucleotide-dependent Rho-associated kinase inhibitor. The Rho-kinase (ROCK) mediates vasoconstriction and vascular remodeling.

Purity

>99%

Formula

$C_{14}H_{17}N_3O_2S \cdot HCl$

Solubility

DMSO, water

Alternative Names

HA-1077 hydrochloride, Eiril, AT-877, 5-(1,4-diazepan-1-ylsulfonyl)isoquinoline hydrochloride

Effect

Fasudil effectively inhibited ISO-induced heart failure, as evaluated by biometric, hemodynamic, and histological examinations. It has been demonstrated that fasudil decrease human embryonic stem cells (hESC) dissociation-induced apoptosis, increase hESC cloning efficiency and facilitate hESC subcloning after gene transfer.

CAS

105628-07-7

Molecular Weight

327.83

Stability

Stable at -20 °C. Keep away from direct sunlight.

References

1. Watanabe, K., et al. 2007. Nat Biotechnol. 25(6): 681-686. PMID: 17529971
2. Zhang, XZ. 2010. Reprod Biomed Online. 21(1): 26-36. PMID: 20462797
3. O, E., et al. 2011. Int J Mol Med. 28(3): 357-363. PMID: 21567077