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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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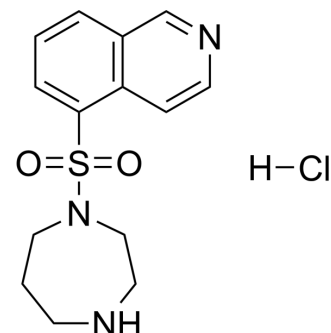
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Fasudil Hydrochloride (Standard)

| | |
|---------------------------|---|
| Cat. No.: | HY-10341R |
| CAS No.: | 105628-07-7 |
| Molecular Formula: | C ₁₄ H ₁₈ ClN ₃ O ₂ S |
| Molecular Weight: | 327.83 |
| Target: | PKA; PKC; HIV; Calcium Channel; Autophagy; ROCK |
| Pathway: | Stem Cell/Wnt; TGF-beta/Smad; Epigenetics; Anti-infection; Membrane Transporter/Ion Channel; Neuronal Signaling; Autophagy; Cell Cycle/DNA Damage; Cytoskeleton |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | Fasudil (Hydrochloride) (Standard) is the analytical standard of Fasudil (Hydrochloride). This product is intended for research and analytical applications. Fasudil (HA-1077; AT877) Hydrochloride is a nonspecific RhoA/ROCK inhibitor and also has inhibitory effect on protein kinases, with an K_i of 0.33 μ M for ROCK1, IC_{50} s of 0.158 μ M and 4.58 μ M, 12.30 μ M, 1.650 μ M for ROCK2 and PKA, PKC, PKG, respectively. Fasudil Hydrochloride is also a potent Ca ²⁺ channel antagonist and vasodilator [1][2][3]. |
| IC₅₀ & Target | Ki: 0.33 μ M (ROCK1) ^[1] IC ₅₀ : 0.158 μ M (ROCK2), 4.58 μ M (PKA), 12.30 μ M (PKC), 1.650 μ M (PKG) ^[1] |

REFERENCES

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- [4]. Fukushima M, et al. Fasudil hydrochloride hydrate, a Rho-kinase (ROCK) inhibitor, suppresses collagen production and enhances collagenase activity in hepatic stellate cells. *Liver Int*. 2005 Aug;25(4):829-38.
- [5]. Corbin KD, et al. Choline metabolism provides novel insights into nonalcoholic fatty liver disease and its progression. *Curr Opin Gastroenterol*. 2012 Mar;28(2):159-65.
- [6]. Zhang J, et al. Inhibition of the activity of Rho-kinase reduces cardiomyocyte apoptosis in heart ischemia/reperfusion via suppressing JNK-mediated AIF translocation. *Clin Chim Acta*. 2009 Mar;401(1-2):76-80.
- [7]. Sun X, et al. The selective Rho-kinase inhibitor Fasudil is protective and therapeutic in experimental autoimmune encephalomyelitis. *J Neuroimmunol*. 2006 Nov;180(1-2):126-34. Epub 2006 Sep 22.

Caution: Product has not been fully validated for medical applications. For research use only.

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