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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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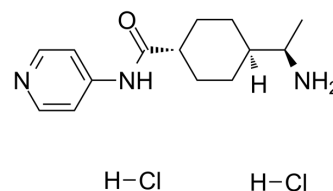
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Y-27632 dihydrochloride (GMP)

Cat. No.:	HY-10583G
CAS No.:	129830-38-2
Molecular Formula:	C ₁₄ H ₂₃ Cl ₂ N ₃ O
Molecular Weight:	320.26
Target:	ROCK
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Stem Cell/Wnt; TGF-beta/Smad
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (312.25 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.1225 mL	15.6123 mL	31.2246 mL
5 mM	0.6245 mL	3.1225 mL	6.2449 mL
10 mM	0.3122 mL	1.5612 mL	3.1225 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Y-27632 dihydrochloride (GMP) is the GMP level of Y-27632 dihydrochloride (HY-10583). GMP guidelines are used to produce Y-27632 dihydrochloride (GMP). GMP small molecules works appropriately as an auxiliary reagent for cell research manufacture. Y-27632 dihydrochloride is an orally active and ATP-competitive ROCK (Rho-kinase) inhibitor with antiepileptic effect^{[1][2][3][4]}.

In Vitro

Y-27632 dihydrochloride (GMP) (2 μM; 4-8 d) enhances the survival rate and increases reprogramming of mouse fibroblasts directly converted into neuronal cells^[1].
 Y-27632 dihydrochloride (GMP) induces human fibroblasts convert into functional cardiomyocytes^[2].
 Y-27632 dihydrochloride (GMP) induces fibroblasts convert into pluripotent stem cells (hiPSCs)^[2].
 Y-27632 dihydrochloride (GMP) (2-10 μM) promotes human EPS cell proliferation and induces primed hPSCs convert into hEPS cells^[3].
 Y-27632 dihydrochloride (GMP) (10 μM) induces human EPS cell derived from blastocysts^[4].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nature. 2022 Nov;611(7936):603-613.
- Nature. 2022 Jan;601(7894):600-605.
- Science. 2020 Dec 4;370(6521):eaay2002.
- Cancer Cell. 2023 Jun 12;41(6):1103-1117.e12.
- Cell Res. 2023 Jul 17.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Li X, et al. Small-Molecule-Driven Direct Reprogramming of Mouse Fibroblasts into Functional Neurons. Cell Stem Cell. 2015 Aug 6;17(2):195-203.
- [2]. Cao N, et al. Conversion of human fibroblasts into functional cardiomyocytes by small molecules. Science. 2016 Jun 3;352(6290):1216-20.
- [3]. Choi IY, et al. Concordant but Varied Phenotypes among Duchenne Muscular Dystrophy Patient-Specific Myoblasts Derived using a Human iPSC-Based Model. Cell Rep. 2016 Jun 7;15(10):2301-2312.
- [4]. Yang Y, et al. Derivation of Pluripotent Stem Cells with In Vivo Embryonic and Extraembryonic Potency. Cell. 2017 Apr 6;169(2):243-257.e25.

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

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