

Product Datasheet

Chroman 1

Catalog No. **BP-02380** · CAS **1273579-40-0** · Form **free base** · Physical state **solid** · Color **White to pink** · Version **1.0** · Revision **2026-09-11**

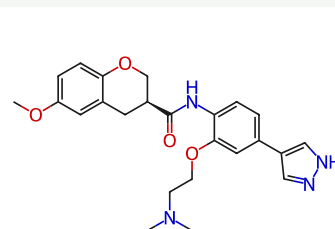
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Target ROCK	Research area Cardiovascular Disease
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Molecular formula **C₂₄H₂₈N₄O₄**

Molecular weight **436.5035**

STRUCTURE



DESCRIPTION

Chroman 1 is a highly potent and selective ROCK inhibitor. Chroman 1 is more potent against ROCK2 (IC₅₀=1 pM) than ROCK1 (IC₅₀=52 pM). Chroman 1 also has inhibitory activity against MRCK, with an IC₅₀ of 150 nM.

BIOLOGICAL ACTIVITY

In Vitro

Chroman 1 (50 nM, 24 h) inhibits caspase-3/7 activation and reduces apoptosis in human pluripotent stem cells

SOLUBILITY

Soluble in DMSO

In vitro DMSO : ≥ 50 mg/mL

REFERENCES

[1]. Yu Chen, et al. A Versatile Polypharmacology Platform Promotes Cytoprotection and Viability of Human Pluripotent and Differentiated Cells. bioRxiv 815761.

[2]. Yen Ting Chen, et al. Asymmetric synthesis of potent chroman-based Rho kinase (ROCK-II) inhibitors. Med.Chem.Comm., 2011, 2, 73-75.