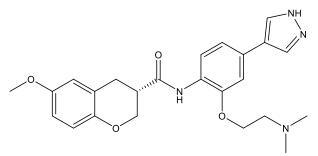


## Catalog # 10-4912 Chroman 1

CAS# 1273579-40-0

(3S)-N-[2,[2-(Dimethylamino)ethoxy)-4-(1H-pyrazol-4-yl)phenyl]-6-methoxy-3,4-dihydro-2H-chromen-3-carboxamide Lot # FBA8069



Chroman 1 is an extremely potent inhibitor of Rho kinase II (ROCK-II)<sup>1,2</sup> – it displayed greater selectivity and potency compared to Y-27632 (IC<sub>50</sub>'s: ROCK I = 52 pM/ROCK II = 1 pM; Y-27632 IC<sub>50</sub>'s: ROCK I = 71 nM/ROCK II = 46 nM)<sup>3</sup>. Chroman 1, used in conjunction with trans-ISRIB (Cat# 10-1539), Emricasan (Cat# 10-4280), and polyamines (CEPT cocktail), promotes cytoprotective cell survival in human pluripotent stem cells (hPSCs) and was found to be superior to Y-27632.<sup>3</sup> Chroman 1 is an important new tool in the generation and maintenance of stem cells.

- Chen et al. (2011), Asymmetric synthesis of potent chroman-based Rho kinase (ROCK-II) inhibitors; Med. Chem. Commun.,2 73
- 2) Chen et al. (2008), Chroman-3-amides as potent Rho kinase inhibitors; Bioorg. Med. Chem. Lett., 18 6406
- Chen et al. (2021), A Versatile Polypharmacology Platform Promotes Cytoprotection and Viability of Human Pluripotent and Differentiated Cells; Nat. Methods, 18 528

## PHYSICAL DATA

Molecular Weight:	436.51
Molecular Formula:	C <sub>24</sub> H <sub>28</sub> N <sub>4</sub> O <sub>4</sub>
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (at least 50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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