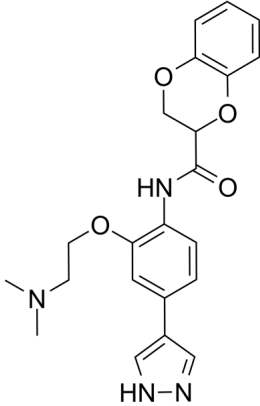


## Certificate of Analysis

Catalog Number	BP13510
Product Name	SR-3677

## Physical and Chemical Properties

CAS No.	1072959-67-1
Chemical Formula	C <sub>22</sub> H <sub>24</sub> N <sub>4</sub> O <sub>4</sub>
Molecular Weight	408.458
Solubility	DMSO: 40 mg/mL (97.93 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <p>The chemical structure of SR-3677 is shown. It features a central benzene ring with a dimethylaminoethoxy group (-OCH<sub>2</sub>CH<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub>) at the 4-position and a pyrazole ring at the 1-position. The pyrazole ring is connected to the benzene ring via a methylene group (-CH<sub>2</sub>-). The pyrazole ring has an NH group and is connected to a carbonyl group (-C(=O)-). The carbonyl group is connected to a benzodioxane ring system.</p>

## Product Information

Description	SR-3677 is an effective and specific inhibitor of ROCK2 (IC <sub>50</sub> : 3 nM).
Targets&IC <sub>50</sub>	ROCK1:56 nM, ROCK2:3 nM

In vitro	SR-3677 has an IC <sub>50</sub> of ~3 nM in enzyme and cell-based assays and has an off-target hit rate of 1.4% against 353 kinases, and inhibits only 3 out of 70 non-kinase enzymes and receptors. The IC <sub>50</sub> value of SR-3677 for ROCK-I is 56 nM.
In vivo	SR-3677 increases ex vivo aqueous humor outflow in porcine eyes and inhibiting myosin light chain phosphorylation. Continuous exposure of 25 µM SR-3677 increases the outflow facility by 60% at 1 h perfusion, increasing to 70-80% for the 2-5 h time points.

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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