
Product Data Sheet

Product Name: ROCK2-IN-2

Cat. No.: GC31883

Chemical Properties

Cas. No. 1995065-79-6

SMILES C12=CC(NC3=NN=C(C4=CC(C5=NC=CO5)=CC=C4)S3)=CC=C1NN=C2

Formula C18H12N6OS M.Wt 360.39

Solubility DMSO : 100 mg/mL (277.48 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

ROCK2-IN-2 is a selective ROCK2 inhibitor extracted from patent US20180093978A1, Compound A-30, has an IC50 of <1 μM.

Rho-associated protein kinase (ROCK) is a member of the serine-threonine protein kinase family. ROCK, which exists in two isoforms, ROCK1 and ROCK2, is an effector molecule of RhoA, and the RhoA/ROCK signaling pathway is involved in a number of cellular functions, which include, for example, actin organization, cell adhesion, cell migration, and cytokinesis. In addition, the RhoA/ROCK signaling pathway is involved in regulating smooth muscle contraction. Inhibitors of ROCK have been reported to be useful for treating multiple medical disorders, such as fibrosis, inflammatory disorders, autoimmune disorders, and cardiovascular disorders[1].

[1]. Aicher, Thomas Daniel, et al. INDAZOLYL THIADIAZOLAMINES AND RELATED COMPOUNDS FOR INHIBITION OF RHO-ASSOCIATED PROTEIN KINASE AND THE TREATMENT OF DISEASE. US20180093978A1.

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

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