

Product Data Sheet

Product Name: ROCK2-IN-12

Cat. No.: GC79115

Chemical Properties

Cas. No. 3086603-12-2

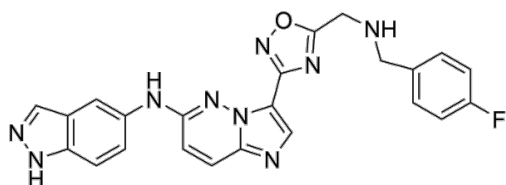
Formula $C_{23}H_{18}FN_9O$ M.Wt 455.45

Solubility DMSO: 1 mg/mL (2.20 mM); ultrasonic and warming and heat to 60°C) 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-12 (Compound A25) is a selective ROCK2 inhibitor with an IC_{50} of 7.0 nM for ROCK2 over ROCK1. ROCK2-IN-12 has potent antifibrotic effects via the TGF- β /Smad and ROCK2/STAT3 signaling pathways. ROCK2-IN-12 significantly reduces collagen deposition and reverses fibrotic progression in Bleomycin-induced pulmonary fibrosis (PF) mouse models. ROCK2-IN-12 can be used for lung diseases like pulmonary fibrosis research [1].

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

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References:

[1]. Cao Z, et al. Identification of Novel Imidazo[1,2-b]pyridazine Derivatives as Selective ROCK2 Inhibitors for the Treatment of Pulmonary Fibrosis. J Med Chem. 2025 Oct 23;68(20):21892-21916.

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