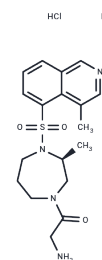


Glycyl H-1152 hydrochloride

Chemical Properties

CAS No. :	913844-45-8
Formula:	C ₁₈ H ₂₆ Cl ₂ N ₄ O ₃ S
Molecular Weight:	449.39
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Two Rho-associated kinases (ROCK), ROCK-I and ROCK-II, act downstream of the G protein Rho to regulate cytoskeletal stability. The ROCKs play important roles in diverse cellular functions including cell adhesion and proliferation, smooth muscle contraction, and stem cell renewal. Glycyl-H-1152 is a selective and potent ROCK inhibitor (IC ₅₀ = 11.8 nM for ROCK-II). It is a glycylyated isoquinoline compound derived from the therapeutically-important ROCK inhibitor HA-1077 (Fasudil) and exhibits better specificity. Thus, it poorly inhibits Ca ²⁺ /calmodulin-dependent kinase type II, protein kinase (PK) G, and Aurora A (IC ₅₀ = 2.57, 2.35, and 3.26 μM, respectively) as well as PKA or PKC (IC ₅₀ ≥ 10 μM for each). The potency of Glycyl-H-1152 is superior to that of other ROCK inhibitors, including Y-27632 (K _i = 220 nM) and HA-1077 (IC ₅₀ = 158 nM).
Targets(IC ₅₀)	CaMK,Others,Aurora Kinase,ROCK

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (22.25 mM),Sonication is recommended. DMSO: 10 mg/mL (22.25 mM),Sonication is recommended. Ethanol: 2 mg/mL (4.45 mM),Sonication is recommended. DMF: 5 mg/mL (11.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2252 mL	11.1262 mL	22.2524 mL
5 mM	0.445 mL	2.2252 mL	4.4505 mL
10 mM	0.2225 mL	1.1126 mL	2.2252 mL
50 mM	0.0445 mL	0.2225 mL	0.445 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481