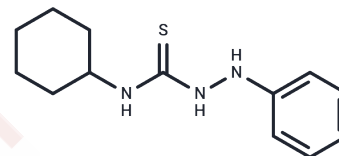


4-Cyclohexyl-1-phenylthiosemicarbazide

Chemical Properties

CAS No. : 27421-91-6
 Formula: C₁₃H₁₉N₃S
 Molecular Weight: 249.38
 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	4-Cyclohexyl-1-phenylthiosemicarbazide is employed as an intermediate.
Targets(IC50)	Others
Kinase Assay	Recombinant ROCK-I, ROCK-II, PKN, or citron kinase is expressed in HeLa cells as Myc-tagged proteins by transfection using Lipofectamine, and is precipitated from the cell lysates by the use of 9E10 monoclonal anti-Myc antibody coupled to G protein-Sepharose. Recovered immunocomplexes are incubated with various concentrations of [32P]ATP and 10 mg of histone type 2 as substrates in the absence or presence of various concentrations of either Y-27632 or Y-30141 at 30°C for 30 min in a total volume of 30 µL of the kinase buffer containing 50 mM HEPES-NaOH, pH 7.4, 10 mM MgCl ₂ , 5 mM MnCl ₂ , 0.02% Brij 35, and 2 mM dithiothreitol. PKCa is incubated with 5 µM [32P]ATP and 200 µg/mL histone type 2 as substrates in the absence or presence of various concentrations of either Y-27632 or Y-30141 at 30°C for 10 min in a kinase buffer containing 50 mM Tris-HCl, pH 7.5, 0.5 mM CaCl ₂ , 5 mM magnesium acetate, 25 µg/mL phosphatidyl serine, 50 ng/mL 12-O-tetradecanoylphorbol-13-acetate and 0.001% leupeptin in a total volume of 30 µL. Incubation is terminated by the addition of 10 µL of 43 Laemmli sample buffer. After boiling for 5 min, the mixture is subjected to SDS-polyacrylamide gel electrophoresis on a 16% gel. The gel is stained with Coomassie Brilliant Blue, and then dried. The bands corresponding to histone type 2 are excised, and the radioactivity is measured[1].

Solubility Information

Solubility	DMSO: 10 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	4.0099 mL	20.0497 mL	40.0994 mL
5 mM	0.802 mL	4.0099 mL	8.0199 mL
10 mM	0.401 mL	2.005 mL	4.0099 mL
50 mM	0.0802 mL	0.401 mL	0.802 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

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