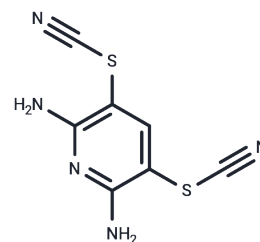


PR-619

Chemical Properties

CAS No. : 2645-32-1
Formula: C7H5N5S2
Molecular Weight: 223.28
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	PR-619 (2,6-Diamino-3,5-dithiocyanopyridine) is a non-selective, reversible inhibitor of the deubiquitinating enzymes (DUBs).
Targets(IC50)	Apoptosis,DUB,Autophagy
Kinase Assay	Ub-PLA2 assay: Recombinant enzymes in 20 mM Tris-HCl, pH 8.0, 2 mM CaCl ₂ and 2 mM β-mercaptoethanol (DUB assay buffer) are preincubated with single doses or dose ranges of PR-619 or P22077 for 30 minutes in a 96 well plate before the addition of Ub-PLA2 and NBD C6-HPC. The liberation of a fluorescent product within the linear range of the assay is monitored at room temperature using a fluorescence plate reader. Vehicle (2%(v/v) DMSO) and 10 mM N-ethylmaleimide are included as controls. Where ≥60% inhibition is observed, EC50 values are determined using a sigmoidal dose response equation.
Cell Research	72 h hours later, 0.2 mg/mL resazurin prepared in phosphate-buffered saline is added to each well and the cells are incubated for an additional 3-6 h. The fluorescence of the resazurin reduction product is measured using Ex=535 nm and Em=590 nm filters on a fluorimeter. The EC50 values are calculated in Prism.(Only for Reference)

Solubility Information

Solubility	DMSO: < 1mg/ml (insoluble) , (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4787 mL	22.3934 mL	44.7868 mL
5 mM	0.8957 mL	4.4787 mL	8.9574 mL
10 mM	0.4479 mL	2.2393 mL	4.4787 mL
50 mM	0.0896 mL	0.4479 mL	0.8957 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.

Reference

Song P, Yang S, Hua H, et al. The regulatory protein GADD34 inhibits TRAIL-induced apoptosis via TRAF6/ERK-dependent stabilization of myeloid cell leukemia 1 in liver cancer cells. Journal of Biological Chemistry. 2019: jbc.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481