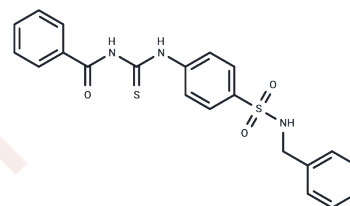


PU23

Chemical Properties

CAS No. : 817635-93-1
 Formula: C₂₁H₁₉N₃O₃S₂
 Molecular Weight: 425.52
 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	PU 23 is an inhibitor of multidrug-resistant protein 4 (MRP4).
Targets(IC50)	Others,MRP,P-gp
In vitro	6-Mercaptopurine (6-MP) inhibits HEK293 and HEK293/MRP4 cells with IC50s of 2.81 and 14.11 μM, respectively. Combined with PU23, 6-MP inhibits these cells with IC50s of 1.84 and 6.06 μM. Preincubation of HEK293/MRP4 cells with PU 23 (50 μM) for 2 hours significantly increases the intracellular concentration of 6-MP [1].

Solubility Information

Solubility	DMSO: 55 mg/mL (129.25 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	2.3501 mL	11.7503 mL	23.5007 mL
5 mM	0.470 mL	2.3501 mL	4.7001 mL
10 mM	0.235 mL	1.175 mL	2.3501 mL
50 mM	0.047 mL	0.235 mL	0.470 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.

Reference

Ya Chen, et al. Discovery of novel multidrug resistance protein 4 (MRP4) inhibitors as active agents reducing resistance to anticancer drug 6-Mercaptopurine (6-MP) by structure and ligand-based virtual screening. PLoS One. 2018 Oct 15;13(10):e0205175.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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