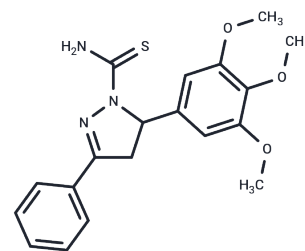


SSE15206

Chemical Properties

CAS No. : 1370046-40-4
Formula: C₁₉H₂₁N₃O₃S
Molecular Weight: 371.45
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	SSE15206 is a microtubule polymerization inhibitor that overcomes multidrug resistance. Causes aberrant mitosis resulting in G2/M arrest due to incomplete spindle formation in cancer cells.
Targets(IC50)	Apoptosis, Microtubule Associated
In vitro	Treatment of cells with SSE15206 causes aberrant mitosis resulting in G2/M arrest due to incomplete spindle formation, a phenotype often associated with drugs that interfere with microtubule dynamics. SSE15206 is able to overcome resistance to chemotherapeutic drugs in different cancer cell lines including multidrug-resistant KB-V1 and A2780-Pac-Res cell lines overexpressing MDR-1, making it a promising hit for the lead optimization studies to target multidrug resistance.
Cell Research	Fluorescence intensity of tubulin (4?μM) in the presence of colchicine (20?μM) and SSE15206 at indicated concentrations was measured. DMSO was used as a solvent control while 50?μM nocodazole was used as a positive control for colchicine displacement. Samples were incubated for 60?min at 37°C before measurement of fluorescence (excitation at 355?nm and emission at 460?nm). KB-V1 and A2780-Pac-Res cells were incubated with 5?μM rhodamine, for 1?hour at 37°C in the presence or absence of inhibitors. Cells were then washed twice with PBS and incubated in the efflux medium (their respective growth media) in the presence of DMSO, 20?μM verapamil, and 10?μM SSE15206 for 3?hours. The percentage of rhodamine 123 positive cells was determined. Experiments were done in duplicates with 4-5 readings for each sample in each experiment.

Solubility Information

Solubility	DMSO: 150 mg/mL (403.82 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6922 mL	13.4608 mL	26.9215 mL
5 mM	0.5384 mL	2.6922 mL	5.3843 mL
10 mM	0.2692 mL	1.3461 mL	2.6922 mL
50 mM	0.0538 mL	0.2692 mL	0.5384 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

Manzoor S , Bilal A , Khan S , et al. Identification and characterization of SSE15206, a microtubule depolymerizing agent that overcomes multidrug resistance[J]. Scientific Reports, 2018, 8(1).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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