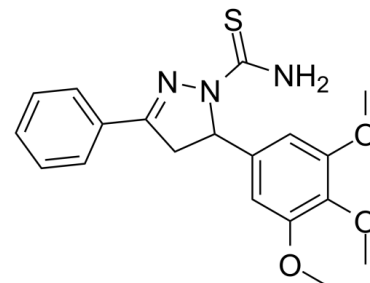


Data Sheet

Product Name:	SSE15206
Cat. No.:	CS-0040571
CAS No.:	1370046-40-4
Molecular Formula:	C ₁₉ H ₂₁ N ₃ O ₃ S
Molecular Weight:	371.45
Target:	Apoptosis; Microtubule/Tubulin
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Cytoskeleton
Solubility:	DMSO : 150 mg/mL (403.82 mM; Need ultrasonic); H ₂ O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

SSE15206 is a **microtubule** polymerization inhibitor ($GI_{50} = 197$ nM in HCT116 cells) that overcomes multidrug resistance. Causes aberrant mitosis resulting in G₂/M arrest due to incomplete spindle formation in cancer cells^[1]. IC₅₀ & Target: GI_{50} : 197 nM (microtubule)^[1]. **In Vitro**: SSE15206 induces apoptosis in cells irrespective of MDR-1 overexpression cell lines (KB-V1, A2780-Pac-Res), highly resistant to paclitaxel cells (HCT116-Pac-Res) and parental cells at the concentration of $5 \times$ and $10 \times$ GI_{50} values. To conclude, SSE15206 is able to overcome resistance to chemotherapeutic drugs such as paclitaxel in different cancer cell lines^[1].

References:

[1]. Manzoor S, et al. Identification and characterization of SSE15206, a microtubule depolymerizing agent that overcomes multidrug resistance. Sci Rep. 2018 Feb 19;8(1):3305.

CAIndexNames:

1H-Pyrazole-1-carbothioamide, 4,5-dihydro-3-phenyl-5-(3,4,5-trimethoxyphenyl)-

SMILES:

COC1=C(OC)C(OC)=CC(C2N(C(N)=S)N=C(C3=CC=CC=C3)C2)=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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