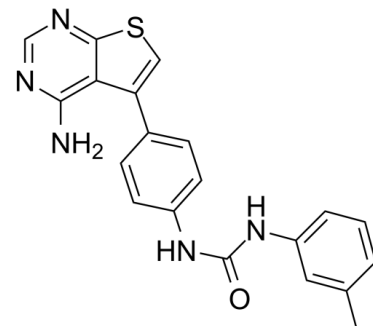


Data Sheet

Product Name:	GDP366
Cat. No.:	CS-7241
CAS No.:	501698-03-9
Molecular Formula:	C ₂₀ H ₁₇ N ₅ O ₂ S
Molecular Weight:	375.45
Target:	Survivin
Pathway:	Apoptosis
Solubility:	DMSO : 62.5 mg/mL (166.47 mM; Need ultrasonic); H ₂ O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

GDP366, a dual inhibitor of **survivin** and **Op18**, induces cell growth inhibition, cellular senescence and mitotic catastrophe in human cancer cells. IC₅₀ & Target: Survivin^[1]

Op18^[1] In Vitro: GDP366 potently and selectively inhibits the expression of both survivin and Op18. GDP366 decreases both the mRNA and protein levels of survivin and Op18. This inhibitory effect is not dependent on the status of p53 and p21 although GDP366 potently increases p53 and p21 levels. GDP366 significantly inhibits the growth of tumor cells in vitro and in vivo (nude mouse model) without rapid induction of apoptosis. GDP366 induces polyploidy in multiple types of cancer cell lines. GDP366 increases chromosomal instability, and induces cellular senescence by inhibiting telomerase activity^[1].

References:

[1]. Shi X, et al. GDP366, a novel small molecule dual inhibitor of survivin and Op18, induces cell growth inhibition, cellular senescence and mitotic catastrophe in human cancer cells. Cancer Biol Ther. 2010 Apr 15;9(8):640-50.

CAIndexNames:

Urea, N-[4-(4-aminothieno[2,3-d]pyrimidin-5-yl)phenyl]-N'-(3-methylphenyl)-

SMILES:

O=C(NC1=CC=CC(C)=C1)NC2=CC=C(C3=CSC4=NC=NC(N)=C43)C=C2

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

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