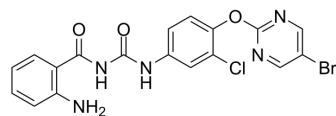


NSC639828

Cat. No.:	HY-145330
CAS No.:	134742-26-0
Molecular Formula:	C ₁₈ H ₁₃ BrClN ₅ O ₃
Molecular Weight:	462.68
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (216.13 mM; Need ultrasonic)																							
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.1613 mL</td> <td>10.8066 mL</td> <td>21.6132 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4323 mL</td> <td>2.1613 mL</td> <td>4.3226 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2161 mL</td> <td>1.0807 mL</td> <td>2.1613 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	1 mM	2.1613 mL	10.8066 mL	21.6132 mL	5 mM	0.4323 mL	2.1613 mL	4.3226 mL	10 mM	0.2161 mL	1.0807 mL	2.1613 mL			
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Please refer to the solubility information to select the appropriate solvent.																								
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.40 mM); Clear solution																							

BIOLOGICAL ACTIVITY

Description	NSC639828 is a potent inhibitor of DNA polymerase α with an IC ₅₀ of 70 μ M. NSC639828 has high antitumor activity. NSC639828 has the potential for researching cancer disease ^[1] .
IC ₅₀ & Target	DNA polymerase α ^[1] .

REFERENCES

[1]. Abdel-Aziz W, et al. Effect of novel benzoylphenylurea derivatives on DNA polymerase alpha activity using the synthesesome-based in vitro model system. Invest New Drugs. 2003;21(4):421-428.

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

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