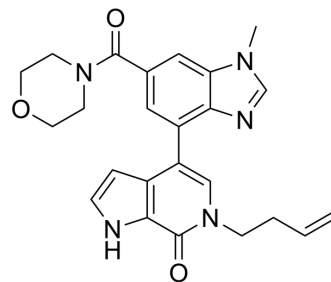


GNE-371

Cat. No.:	HY-112803
CAS No.:	1926986-36-8
Molecular Formula:	C ₂₄ H ₂₅ N ₅ O ₃
Molecular Weight:	431.49
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (115.88 mM; Need ultrasonic)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.3176 mL</td> <td>11.5878 mL</td> <td>23.1755 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4635 mL</td> <td>2.3176 mL</td> <td>4.6351 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2318 mL</td> <td>1.1588 mL</td> <td>2.3176 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	2.3176 mL	11.5878 mL	23.1755 mL	5 mM	0.4635 mL	2.3176 mL	4.6351 mL	10 mM	0.2318 mL	1.1588 mL	2.3176 mL
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	Please refer to the solubility information to select the appropriate solvent.																	
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.79 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.79 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.79 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	GNE-371 is a potent and selective chemical probe for the second bromodomains of human transcription-initiation-factor TFIID subunit 1 and transcription-initiation-factor TFIID subunit 1-like, with an IC ₅₀ of 10 nM for TAF1(2).
IC₅₀ & Target	IC ₅₀ : 10 nM (TAF1(2)) ^[1] .
In Vitro	GNE-371 (compound 27) binds TAF1(2) with an IC ₅₀ of 10 nM while maintaining excellent selectivity over other bromodomain-family members. GNE-371 is also active in a cellular-TAF1(2) target-engagement assay (IC ₅₀ =38 nM) and exhibits anti-proliferative synergy with the BET inhibitor JQ1, suggesting engagement of endogenous TAF1 by GNE-371 and

further supporting the use of GNE-371 in mechanistic and target-validation studies^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang S, et al. GNE-371, a Potent and Selective Chemical Probe for the Second Bromodomains of Human Transcription-Initiation-Factor TFIID Subunit 1 and Transcription-Initiation-Factor TFIID Subunit 1-like. J Med Chem. 2018 Oct 25;61(20):9301-9315.

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

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