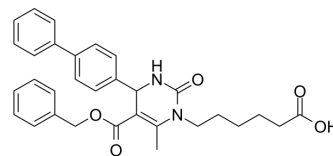


116-9e

Cat. No.:	HY-116683		
CAS No.:	831217-43-7		
Molecular Formula:	C ₃₁ H ₃₂ N ₂ O ₅		
Molecular Weight:	512.6		
Target:	HSP; DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (195.08 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.9508 mL	9.7542 mL	19.5084 mL
	5 mM	0.3902 mL	1.9508 mL	3.9017 mL
	10 mM	0.1951 mL	0.9754 mL	1.9508 mL
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 (4.88 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.88 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.88 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	116-9e (MAL2-11B) is a Hsp70 co-chaperone DNAJA1 inhibitor. 116-9e inhibits Simian Virus 40 (SV40) replication and DNA synthesis. 116-9e inhibits tumor antigen (TAG)'s endogenous ATPase activity and the TAG-mediated activation of Hsp70 ^{[1][2]} .
IC₅₀ & Target	Simian Virus 40 (SV40) ^[1] Hsp70 co-chaperone DNAJA1 ^[2]
In Vitro	116-9e (MAL2-11B) inhibits TAG stimulation of Hsp70 with greater efficacy than MAL3-101, significantly reduces viral

replication and DNA synthesis. MAL2-11B also inhibits the activity of the TAg ATPase domain^[1].
116-9e (MAL2-11B; 15 μ M; 5 days) significantly reduces the growth of BK virus in a human kidney cell line^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Christine M Wright, et al. Inhibition of Simian Virus 40 replication by targeting the molecular chaperone function and ATPase activity of T antigen. *Virus Res.* 2009 Apr;141(1):71-80.

[2]. Nitika, et al. Chemogenomic screening identifies the Hsp70 co-chaperone DNAJA1 as a hub for anticancer drug resistance. *Sci Rep.* 2020 Aug 14;10(1):13831.

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

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