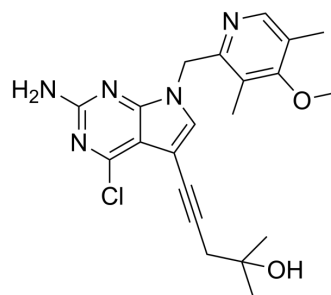


EC144

Cat. No.:	HY-13479
CAS No.:	911397-80-3
Molecular Formula:	C ₂₁ H ₂₄ ClN ₅ O ₂
Molecular Weight:	413.9
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 66.67 mg/mL (161.08 mM; Need ultrasonic)				
		Solvent	Mass		
	Preparing Stock Solutions	Concentration	1 mg	5 mg	10 mg
		1 mM	2.4160 mL	12.0802 mL	24.1604 mL
5 mM		0.4832 mL	2.4160 mL	4.8321 mL	
	10 mM	0.2416 mL	1.2080 mL	2.4160 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.04 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.04 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	EC144 is a potent and selective inhibitor of heat shock protein 90 (Hsp90) with an IC ₅₀ of 1.1 nM. EC144 inhibits tumor growth and causes partial tumor regressions. EC144 has the potential for the research of cancer diseases ^[1] . EC144 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
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REFERENCES

[1]. Shi J, et al. EC144 is a potent inhibitor of the heat shock protein 90. J Med Chem. 2012;55(17):7786-7795.

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

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