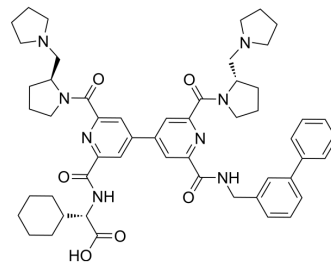


BIO8898

Cat. No.:	HY-122663A		
Molecular Formula:	C ₅₃ H ₆₄ N ₈ O ₆		
Molecular Weight:	909.13		
Target:	TNF Receptor; Apoptosis		
Pathway:	Apoptosis		
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 : 50 mg/mL (55.00 mM; Need ultrasonic)				
		Solvent	Mass		
		Concentration			
	Preparing Stock Solutions	1 mM	1.1000 mL	5.4998 mL	10.9995 mL
		5 mM	0.2200 mL	1.1000 mL	2.1999 mL
10 mM		0.1100 mL	0.5500 mL	1.1000 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: ≥ 1.25 mg/mL (1.37 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (1.37 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (1.37 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	BIO8898 is a potent CD40-CD154 inhibitor. BIO8898 inhibits soluble CD40L binding to CD40-Ig with an IC ₅₀ value of 25 μM. BIO8898 inhibits CD40L-induced apoptosis ^[1] .
IC₅₀ & Target	CD40L 25 μM (IC ₅₀)
In Vitro	BIO8898 (0-100 μM; 3 days) inhibits CD40L-induced apoptosis in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Apoptosis Analysis^[1]

Cell Line:	CD40-TNFR-BHK cells
Concentration:	0-100 μ M
Incubation Time:	3 days
Result:	Inhibited the ability of 3 ng/ml mycCD40L plus 50 μ g/ml cyclohexamide to induce apoptosis.

REFERENCES

[1]. Silvan LF, et al. Small molecule inhibition of the TNF family cytokine CD40 ligand through a subunit fracture mechanism. ACS Chem Biol. 2011 Jun 17;6(6):636-47.

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

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