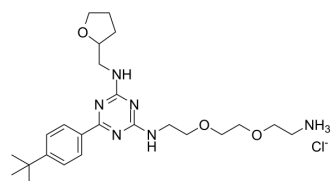


DATPT

Cat. No.:	HY-145307
Molecular Formula:	C ₂₄ H ₃₉ ClN ₆ O ₃
Molecular Weight:	495.06
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (202.00 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.0200 mL	10.0998 mL	20.1996 mL
		5 mM		0.4040 mL	2.0200 mL	4.0399 mL
10 mM		0.2020 mL	1.0100 mL	2.0200 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 (5.05 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.05 mM); Clear solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.05 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	DATPT is a ₁₂ WLVSKF ₁₇ peptide-mimetic molecule. DATPT blocks the SNX9-p47phox interaction in the endosome and suppresses reactive oxygen species and inflammatory cytokine production. DATPT with anti-inflammatory and antibacterial functions has the potential for the research of sepsis ^[1] .
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REFERENCES

[1]. Lee D, et al. Discovery of Mycobacterium tuberculosis Rv3364c-Derived Small Molecules as Potential Therapeutic Agents to Target SNX9 for Sepsis. J Med Chem.

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

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