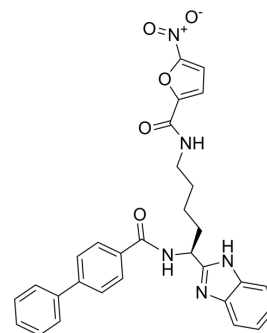


## LB244

Cat. No.:	HY-156117		
Molecular Formula:	C <sub>30</sub> H <sub>27</sub> N <sub>5</sub> O <sub>5</sub>		
Molecular Weight:	537.57		
Target:	STING		
Pathway:	Immunology/Inflammation		
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 (186.02 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.8602 mL	9.3011 mL	18.6022 mL
	5 mM	0.3720 mL	1.8602 mL	3.7204 mL
	10 mM	0.1860 mL	0.9301 mL	1.8602 mL

Please refer to the solubility information to select the appropriate solvent.

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 2.5 mg/mL (4.65 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline)  
Solubility: 2.5 mg/mL (4.65 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: 2.5 mg/mL (4.65 mM); Clear solution; Need ultrasonic

## BIOLOGICAL ACTIVITY

### Description

LB244 is a homologue of BB-Cl-amidine, which is an orally effective STING inhibitor ( $EC_{50}=0.8 \mu\text{M}$ ) and can be used to inhibit STING-dependent inflammatory diseases. The pharmacokinetic properties of LB244 indicate limited oral activity in mice<sup>[1]</sup>.

### In Vivo

Pharmacokinetic results of LB244 (10 mg/kg, po; 5 mg/kg, ip) in mice showed limited oral activity ( $C_{\text{max}}=0.04 \mu\text{M}$ ) and short half-life ( $T_{1/2}=2.8 \text{ h}$ ). Its body clearance is 2854.3 mL/min/kg<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Barasa L, et al. Development of LB244, an Irreversible STING Antagonist. J Am Chem Soc. 2023 Sep 20;145(37):20273-20288..

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

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