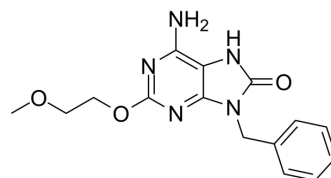


SM-360320

Cat. No.:	HY-125390	
CAS No.:	226907-52-4	
Molecular Formula:	C ₁₅ H ₁₇ N ₅ O ₃	
Molecular Weight:	315.33	
Target:	Toll-like Receptor (TLR)	
Pathway:	Immunology/Inflammation	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (396.41 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1713 mL	15.8564 mL	31.7128 mL
	5 mM	0.6343 mL	3.1713 mL	6.3426 mL
	10 mM	0.3171 mL	1.5856 mL	3.1713 mL

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

BIOLOGICAL ACTIVITY

Description

SM-360320 (CL-087) is a potent, orally active TLR7 agonist. SM-360320 is an immuno-modulator and exerts an antitumor effect. SM-360320 can act in synergy with DNA vaccines leading to an enhanced Th1 antibody response^[1]. SM-360320 can inhibit HCV replication in hepatocytes via a type I IFN-independent mechanism in addition to its IFN-mediated activity^[2].

REFERENCES

- [1]. Dharmapuri S, et al. An oral TLR7 agonist is a potent adjuvant of DNA vaccination in transgenic mouse tumor models. *Cancer Gene Ther.* 2009;16(5):462-472.
- [2]. Lee J, et al. Activation of anti-hepatitis C virus responses via Toll-like receptor 7. *Proc Natl Acad Sci U S A.* 2006;103(6):1828-1833.

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

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