GSK319347A

HY-14682		
862812-98-4		
C ₂₂ H ₁₉ N ₃ O ₅ S ₂		
469.53		
IKK		
NF-κB		
Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month
	862812-98-4 C ₂₂ H ₁₉ N ₃ O ₅ S 469.53 ΙΚΚ NF-κB Powder	862812-98-4 C ₂₂ H ₁₉ N ₃ O ₅ S ₂ 469.53 ΙΚΚ NF-κB Powder -20°C In solvent -80°C

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SOLVENT & SOLUBILITY

	C Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.1298 mL	10.6489 mL	21.2979 mL		
		5 mM	0.4260 mL	2.1298 mL	4.2596 mL		
		10 mM	0.2130 mL	1.0649 mL	2.1298 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
n Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.25 mg/mL (4.79 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.25 mg/mL (4.79 mM); Clear solution						

BIOLOGICAL ACTIV	YITY				
Description	GSK319347A is a dual inhibitor of TBK1 and IKKε with IC ₅₀ s of 93 nM and 469 nM, respectively. GSK319347A also inhibits IKK2 with an IC ₅₀ of 790 nM.				
IC ₅₀ & Target	TBK1 93 nM (IC ₅₀)	IKK-ε 469 nM (IC ₅₀)	IKK2 790 nM (IC ₅₀)		
In Vitro	GSK319347A (Compound 1) inhibits TBK1 enzyme with an IC ₅₀ of 93 nM, which also translates into good cell potency (72 nM). Moreover, IKK-3 Inhibitor exhibits excellent selectivity against cell-cycle kinases CDK2 and AurB ^[1] . IKK-3 Inhibitor (Compound 13) is a novel IkB kinase 2 (IKK2) inhibitor with an IC ₅₀ of 790 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

Product Data Sheet

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CUSTOMER VALIDATION

• Theranostics. 2020 Jan 16;10(5):2358-2373.

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REFERENCES

[1]. Johannes JW, et al. Discovery of 6-aryl-azabenzimidazoles that inhibit the TBK1/IKK-ɛ kinases. Bioorg Med Chem Lett. 2014 Feb 15;24(4):1138-43.

[2]. Xie HZ, et al. Pharmacophore modeling and hybrid virtual screening for the discovery of novel IkB kinase 2 (IKK2) inhibitors. J Biomol Struct Dyn. 2011 Aug;29(1):165-79.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA