GSK-114

Cat. No.:	HY-117658		
CAS No.:	1301761-96-5		
Molecular Formula:	C ₁₉ H ₂₃ N ₅ O ₄ S		
Molecular Weight:	417.48		
Target:	Others		
Pathway:	Others		
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 : 5.95 mg/mL (14.25 mM; ultrasonic and warming and heat to 60°C) Mass Solvent 10 mg 1 mg 5 mg Concentration Preparing 1 mM 2.3953 mL 11.9766 mL 23.9532 mL **Stock Solutions** 5 mM 0.4791 mL 2.3953 mL 4.7906 mL 10 mM 0.2395 mL 1.1977 mL 2.3953 mL

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

BIOLOGICAL ACTIV	
BIOLOGICALMENT	
Description	GSK-114 is a highly selective, orally active TNNI3K inhibitor (IC ₅₀ = 25 nM). GSK-114 shows a 40-fold selectivity for TNNI3K over B-Raf kinase (IC ₅₀ = 1 μM). Cardiac troponin I-interacting kinase (TNNI3K or CARK) is a member of the tyrosine-like kinase family that is selectively expressed in heart tissue ^[1] .
In Vitro	At a concentration of 1 μM, GSK114 demonstrated an affinity for seven other kinases: ACK1, B-Raf, GAK, MEK5, PDGFRB, STK36, and ZAK ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	GSK-114 affords the best balance of specificity and pharmacokinetics, demonstrating useful oral exposure (poDNAUC=0.18, C _{max} =130 ng/ml @ 2 mg/kg, t _{1/2} =3.6 hr, rat F _u =20.2%) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

HN

റ



[1]. Lawhorn BG, et al. GSK114: A selective inhibitor for elucidating the biological role of TNNI3K. Bioorg Med Chem Lett. 2016;26(14):3355-3358.

[2]. Asquith CRM, et al. New Insights into 4-Anilinoquinazolines as Inhibitors of Cardiac Troponin I-Interacting Kinase (TNNi3K). Molecules. 2020;25(7):1697. Published 2020 Apr 7.

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