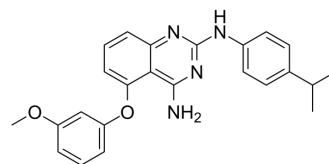


Yhhu-3792

Cat. No.:	HY-120782
CAS No.:	2097826-24-7
Molecular Formula:	C ₂₄ H ₂₄ N ₄ O ₂
Molecular Weight:	400.47
Target:	Notch
Pathway:	Neuronal Signaling; Stem Cell/Wnt
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 66.67 mg/mL (166.48 mM; Need ultrasonic)																			
Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent \ Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.4971 mL</td> <td>12.4853 mL</td> <td>24.9707 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4994 mL</td> <td>2.4971 mL</td> <td>4.9941 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2497 mL</td> <td>1.2485 mL</td> <td>2.4971 mL</td> </tr> </tbody> </table>	Solvent \ Concentration	Mass			1 mg	5 mg	10 mg	1 mM	2.4971 mL	12.4853 mL	24.9707 mL	5 mM	0.4994 mL	2.4971 mL	4.9941 mL	10 mM	0.2497 mL	1.2485 mL	2.4971 mL
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Please refer to the solubility information to select the appropriate solvent.																				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.24 mM); Clear solution																			

BIOLOGICAL ACTIVITY

Description	Yhhu-3792 enhances the self-renewal capability of neural stem cells (NSCs). Yhhu-3792 activates Notch signaling pathway and promotes the expression of Hes3 and Hes5. Yhhu-3792 expands the NSCs pool and promotes endogenous neurogenesis in the hippocampal dentate gyrus (DG) in mouse. Yhhu-3792 increases the spatial and episodic memory abilities of mice. Yhhu-3792 has the potential for the research of impairment of learning and memory associated DG dysfunction ^[1] .
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REFERENCES

[1]. Lu H, et al. A Novel 2-Phenylamino-Quinazoline-Based Compound Expands the Neural Stem Cell Pool and Promotes the Hippocampal Neurogenesis and the Cognitive Ability of Adult Mice. *Stem Cells*. 2018 Aug;36(8):1273-1285.

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

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