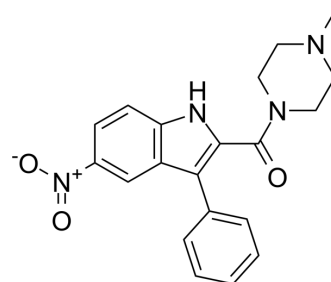


MJN228

Cat. No.:	HY-118319
CAS No.:	459168-97-9
Molecular Formula:	C ₂₀ H ₂₀ N ₄ O ₃
Molecular Weight:	364.4
Target:	Others
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (68.61 mM; Need ultrasonic and warming)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	2.7442 mL	13.7212 mL	27.4424 mL	
		5 mM	0.5488 mL	2.7442 mL	5.4885 mL	
		10 mM	0.2744 mL	1.3721 mL	2.7442 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	MJN228 is a lipid-binding protein nucleobindin-1 (NUCB1) inhibitor with an IC ₅₀ of 3.3 μM ^[1] .
IC ₅₀ & Target	NUCB1 ^[1]
In Vitro	MJN228 (25 μM) produces substantial reductions in lipid probe enrichment of NUCB1 in Neuro2a cells ^[1] . MJN228 perturbs multiple lipid pathways in cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
	Western Blot Analysis ^[1]
	Cell Line: A549
	Concentration: 10 μM
	Incubation Time: 6 h
	Result: Multiple NAEs, including AEA and OEA, were elevated in the shNUCB1-A549 cell lines, but not in the control shRNA (shGFP-A549) cell line.

REFERENCES

[1]. Niphakis MJ, et al. A Global Map of Lipid-Binding Proteins and Their Ligandability in Cells. Cell. 2015 Jun 18;161(7):1668-80.

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

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