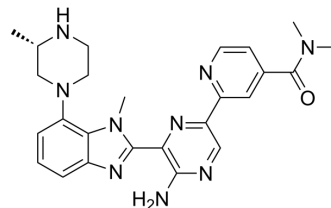


MNK inhibitor 9

Cat. No.:	HY-124638
CAS No.:	1889336-59-7
Molecular Formula:	C ₂₅ H ₂₉ N ₉ O
Molecular Weight:	471.56
Target:	MNK
Pathway:	MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MNK inhibitor 9 is a potent and selective inhibitor of MNK1/2 with IC ₅₀ values of 0.003 μM and 0.003 μM for MNK1 and MNK2 respectively. MNK inhibitor 9 has good cell permeability. MNK inhibitor 9 can be used in tumor related research ^[1] .	
IC₅₀ & Target	MNK1 0.003 μM (IC ₅₀)	MNK2 0.003 μM (IC ₅₀)
In Vitro	<p>MNK inhibitor 9 (Compound 9) inhibits the activity of CaMK2D, FLT3, PIM2 and ROCK2 with IC₅₀ values of 0.69 μM, 0.28 μM, 0.73 μM and 0.37 μM, respectively^[1].</p> <p>MNK inhibitor 9 inhibits the proliferation of KMS11-luc human multiple myeloma tumor cell line with an EC₅₀ value of 1.7 μM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

[1]. Han W, et al. Discovery of a Selective and Potent Inhibitor of Mitogen-Activated Protein Kinase-Interacting Kinases 1 and 2 (MNK1/2) Utilizing Structure-Based Drug Design. J Med Chem. 2016 Apr 14;59(7):3034-45.

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

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