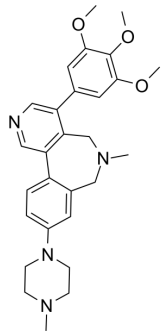
M4K2306

Cat. No.:	HY-161377
Molecular Formula:	$C_{28}H_{34}N_4O_3$
Molecular Weight:	474.59
Target:	TGF-β Receptor
Pathway:	TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	M4K2306 is a selective inhibitor for activin receptor-like kinase-2 (ALK2) with an IC_{50} of 7 nM. M4K2306 is blood brain permeable with a brain to plasma ratio of 75.6[1].	
IC_{50} & Target	ALK2 7 nM (IC_{50})	ALK5 3915 nM (IC_{50})
In Vivo	M4K2306 (25 mg/kg, po, single dose) exhibits exposure in plasma concentration C_{max} of 254 and 17 mM, at 1 hour and 24 hour in NOD-SCID mice model, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. González-Álvarez H, et al., Discovery of Conformationally Constrained ALK2 Inhibitors. J Med Chem. 2024 Mar 28;67(6):4707-4725.

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