M4K2281

Cat. No.: HY-161376

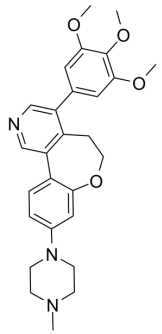
Molecular Formula: $C_{27}H_{31}N_3O_4$

Molecular Weight: 461.55

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	M4K2281 is a selecitve inhibitor for activin receptor-like kinase-2 (ALK2) with an IC_{50} of 2 nM. M4K2281 exhibits a moderate blood brain permeability with a brain to plasma ratio of 3.7 at 4h[1].	
IC_{50} & Target	ALK2 2 nM (IC_{50})	ALK5 350 nM (IC_{50})
In Vivo	M4K2281 (25 mg/kg, p.o., single dose) exhibits a exposure in plasma concentration C_{max} of 5053 and 0 nM, 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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