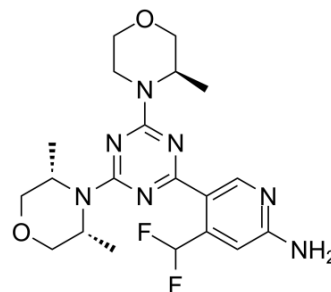


mTOR inhibitor-7

Cat. No.:	HY-136660
CAS No.:	1927857-98-4
Molecular Formula:	C ₂₀ H ₂₇ F ₂ N ₇ O ₂
Molecular Weight:	435.47
Target:	mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	mTOR inhibitor-7 is an orally available, and brain-penetrant mTOR inhibitor extracted from patent WO2017198346A1, compound example 44, has an IC ₅₀ of 5 nM for mTOR. mTOR inhibitor-7 can be used for the research of neurological disorder ^[1] .								
IC₅₀ & Target	IC ₅₀ : 5 nM (mTOR) ^[1]								
In Vitro	<p>mTOR inhibitor-7 (0.04-5 μM; 1 hour) has IC₅₀s of 197 nM and 87 nM for pPKB S473 and pS6 S235/S236, respectively, in-cell western blot. S6 kinase (S6K), S6 ribosomal protein (S6rP) and 4E-binding protein (4E-BP) are prominent downstream effectors of mTOR^[1].</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>A2058 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.04 μM, 0.08 μM, 0.155 μM, 0.3125 μM, 0.625 μM, 1.25 μM, 5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 hour</td> </tr> <tr> <td>Result:</td> <td>Inhibited mTOR in cell.</td> </tr> </table>	Cell Line:	A2058 cells	Concentration:	0.04 μM, 0.08 μM, 0.155 μM, 0.3125 μM, 0.625 μM, 1.25 μM, 5 μM	Incubation Time:	1 hour	Result:	Inhibited mTOR in cell.
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Result:	Inhibited mTOR in cell.								

REFERENCES

[1]. Denise RAGEOT, et al. Treatment of neurological disorders. WO2017198346A1.

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

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