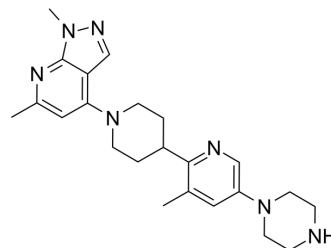


TLR7/8/9 antagonist 2

Cat. No.:	HY-153460
CAS No.:	2920729-91-3
Molecular Formula:	C ₂₃ H ₃₁ N ₇
Molecular Weight:	405.54
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TLR7/8/9 antagonist 2 is an orally active TLR7/8/9 antagonist. TLR7/8/9 antagonist 2 has inhibitory activities for HEK/hTLR7, HEK/hTLR8 and HEK/hTLR9 with IC ₅₀ values of 0.011 μM, 0.029 μM and 0,052 μM, respectively. TLR7/8/9 antagonist 2 has high bioavailability in vivo. TLR7/8/9 antagonist 2 can be used for the research of auto-inflammatory diseases such as systemic lupus erythematosus or lupus nephritis ^[1] .																				
IC₅₀ & Target	IC ₅₀ : 0.011 μM (HEK/hTLR7); 0.029 μM (HEK/hTLR8); 0.052 μM (HEK/hTLR9); 420 nM (hPBMC/TLR9) ^[1] .																				
In Vitro	TLR7/8/9 antagonist 2 (example 7) has inhibitory activities for HEK/hTLR7, HEK/hTLR8 and HEK/hTLR9 with IC ₅₀ values of 0.011 μM, 0.029 μM and 0,052 μM, respectively ^[1] . TLR7/8/9 antagonist 2 has inhibitory activities for hPBMC/TLR9 with IC ₅₀ value of 420 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.																				
In Vivo	TLR7/8/9 antagonist 2 (example 7) has high bioavailability in vivo ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.																				
	Animal Model:	Male Wister-Han Rats ^[1]																			
	Dosage:	2 mg/kg, 10 mg/kg																			
	Administration:	p.o., i.v.; single dose																			
	Result:	<table border="1"> <thead> <tr> <th>PO C_{max} (ng/mL)</th> <th>PO AUC_{0-last} (h*ng/mL)</th> <th>IV AUC_{0-last} (h*ng/mL)</th> <th>CL (mL/min/kg)</th> <th>Vss (L/kg)</th> <th>T_{1/2}(h)</th> <th>F(%)</th> </tr> </thead> <tbody> <tr> <td>465</td> <td>7514</td> <td>1516</td> <td>16</td> <td>16.8</td> <td>14.7</td> <td>100</td> </tr> </tbody> </table>						PO C _{max} (ng/mL)	PO AUC _{0-last} (h*ng/mL)	IV AUC _{0-last} (h*ng/mL)	CL (mL/min/kg)	Vss (L/kg)	T _{1/2} (h)	F(%)	465	7514	1516	16	16.8	14.7	100
PO C _{max} (ng/mL)	PO AUC _{0-last} (h*ng/mL)	IV AUC _{0-last} (h*ng/mL)	CL (mL/min/kg)	Vss (L/kg)	T _{1/2} (h)	F(%)															
465	7514	1516	16	16.8	14.7	100															

REFERENCES

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

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