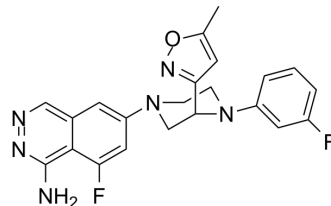


Complement C1s-IN-1

Cat. No.:	HY-149278
Molecular Formula:	C ₂₂ H ₂₀ F ₂ N ₆ O
Molecular Weight:	422.43
Target:	Complement System
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Complement C1s-IN-1 is a potent, selective, orally active and cross the blood-brain barrier C1s inhibitor with an IC ₅₀ value of 36 nM ^[1] .																												
IC₅₀ & Target	IC ₅₀ : 36 nM (C1s) ^[1]																												
In Vivo	<p>Complement C1s-IN-1 (compound (R)-8) (10, 30, 100 mg/kg; p.o.) inhibits MAC formation induced by human serum and shows plasma exposure after oral administration in a dose-dependent manner^[1].</p> <p>Pharmacokinetic Parameters of Complement C1s-IN-1 in Male C57BL/6J mice^[1].</p> <table border="1"> <thead> <tr> <th>Dosage (mg/kg)</th> <th>C_{max} (ng/mL)</th> <th>T_{max} (h)</th> <th>AUC_(0-24h) (h* ng/mL)</th> <th>MRT (h)</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>1032.5±173.0</td> <td>1.67±0.58</td> <td>6017.8±390.4</td> <td>4.31±0.23</td> </tr> <tr> <td>30</td> <td>2583.3±267.1</td> <td>2.67±1.15</td> <td>21928.6±1428.2</td> <td>5.02±0.18</td> </tr> <tr> <td>100</td> <td>8895.9±1516.8</td> <td>4.00±0.00</td> <td>13934.1±36760.1</td> <td>7.66±0.99</td> </tr> </tbody> </table> <p>Male C57BL/6J mice, 10, 30, 100 mg/kg; p.o.^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male C57BL/6J mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10, 30, 100 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>P.o.</td> </tr> <tr> <td>Result:</td> <td>Significantly inhibited MAC formation induced by human serum in a dose-dependent manner.</td> </tr> </table>	Dosage (mg/kg)	C _{max} (ng/mL)	T _{max} (h)	AUC _(0-24h) (h* ng/mL)	MRT (h)	10	1032.5±173.0	1.67±0.58	6017.8±390.4	4.31±0.23	30	2583.3±267.1	2.67±1.15	21928.6±1428.2	5.02±0.18	100	8895.9±1516.8	4.00±0.00	13934.1±36760.1	7.66±0.99	Animal Model:	Male C57BL/6J mice ^[1]	Dosage:	10, 30, 100 mg/kg	Administration:	P.o.	Result:	Significantly inhibited MAC formation induced by human serum in a dose-dependent manner.
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REFERENCES

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

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