## SMS2-IN-3

Cat. No.:	HY-150559	
CAS No.:	2414240-89-2	
Molecular Formula:	C <sub>33</sub> H <sub>39</sub> F <sub>3</sub> N <sub>4</sub> O <sub>6</sub>	
Molecular Weight:	644.68	
Target:	Others	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	Ν



Product Data Sheet

<b>BIOLOGICAL ACTIV</b>	ІТҮ						
Description	SMS2-IN-3 is a potent and se	elective SMS2inhibitor (IC <sub>50</sub> =2.2 nM), significantly reduces the hepatic SM (22:0) levels <sup>[1]</sup> .					
IC <sub>50</sub> & Target	IC50: 2.2nM (SMS2) <sup>[1]</sup>						
In Vitro	SMS2-IN-3 (37) is an excellent sphingomyelin synthase 2 inhibitor (SMS2). SMS2-IN-3 (37) has inhibition (IC <sub>50</sub> = 2.2 nM) and good selectivity against SMS1 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>						
	Cell Line:	FreeStyle293 cells					
	Concentration:	100mg/kg					
	Incubation Time:	60 min					
	Result:	Showed excellent SMS2 inhibition and good selectivity against SMS1 in biological evaluation.					
In Vivo	SMS2-IN-3 (37) has excellent subcutaneous treatment <sup>[1]</sup> . MCE has not independently	t SMS2 activity and high selectivity against SMS1. SMS2-IN-3 also reduces the level of SM by confirmed the accuracy of these methods. They are for reference only.					
	Animal Model:	KK-Ay/Ta mice <sup>[1]</sup>					
	Dosage:	100, 200 mg/kg					
	Administration:	SMS2-IN-3: s.c. (100, 200 mg/kg); p.o. (100, 200 mg/kg); once or twice per day for 7 days.					
	Result:	cmpd C <sub>max</sub> , (μg/mL) T <sub>max</sub> , (h) C <sub>24 h</sub> , (μg/mL) AUC <sub>0-24</sub> (μ MRT(h) g•h/mL)					



37(p.o.)	6.5	0.83	0.007	18	3.0
37(s.c.)	0.70	8.0	0.23	12	9.4

## REFERENCES

[1]. Takafumi Yukawa, et al. Discovery of 1,8-naphthyridin-2-one derivative as a potent and selective sphingomyelin synthase 2 inhibitor. Bioorg Med Chem. 2020 Apr 1;28(7):115376.

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

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