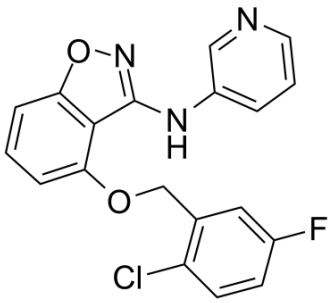
SMS2-IN-2

Cat. No.:	HY-112713
CAS No.:	2241838-28-6
Molecular Formula:	$C_{19}H_{13}ClFN_3O_2$
Molecular Weight:	369.78
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	SMS2-IN-2 is a potent, highly selective and orally active **sphingomyelin synthase 2 (SMS2)** inhibitor, with **IC_{50}**s of 100 nM and 56 μM for SMS2 and SMS1, respectively. Anti-chronic inflammatory activity[1].
IC_{50} & Target	IC50: 100 nM (SMS2), 56 μM (SMS1)[1]
In Vivo	SMS2-IN-2 (Compound 15w; 20, 50 mg/kg/day, p.o. for 6 weeks) reduces chronic inflammation in the db/db mice[1].

Animal Model:	Type 2 diabetes mellitus (T2DM) db/db mouse model (four-to-five week)[1]
Dosage:	20, 50 mg/kg/day
Administration:	P.O. daily for 6 weeks
Result:	Significantly reduced IL-6 and insulin levels.

REFERENCES

[1]. Mo M, et al. Discovery of 4-Benzyloxybenzo[d]isoxazole-3-amine Derivatives as Highly Selective and Orally Efficacious Human Sphingomyelin Synthase 2 Inhibitors that Reduce Chronic Inflammation in db/ db Mice. J Med Chem. 2018 Sep 27;61(18):8241-8254.

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