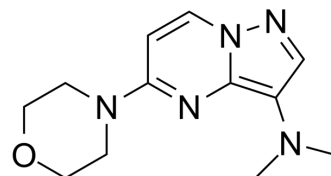


## nSMase2-IN-1

Cat. No.:	HY-155111
CAS No.:	2968322-24-7
Molecular Formula:	C <sub>12</sub> H <sub>17</sub> N <sub>5</sub> O
Molecular Weight:	247.3
Target:	Phospholipase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	nSMase2-IN-1 is an orally active Neutral sphingomyelinase 2 (nSMase2) inhibitor with an IC <sub>50</sub> value of 0.13 ± 0.06 μM. nSMase2-IN-1 is metabolically stable in liver microsomes and orally available with a favorable brain-to-plasma ratio. nSMase2-IN-1 can be used for nervous system disease research <sup>[1]</sup> .
<b>In Vitro</b>	nSMase2-IN-1 (Compound 11j) (5μM, 60 min) shows excellent metabolic stability in rat liver microsomes with >95% remaining after 1 h <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	nSMase2-IN-1 (Compound 11j) (10 mg/kg for oral gavage, detection time of 30min, 2 h) is orally available and brain-penetrant in male Wistar rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Male Wistar rats (Pharmacokinetic assay) <sup>[1]</sup>
Dosage:	10 mg/kg
Administration:	Oral gavage (p.o.)
Result:	Absorbed quickly resulting in plasma concentration of more than 2 μM and had higher brain levels than plasma at 0.5 h.

### REFERENCES

[1]. Novotna K, et al. Neutral sphingomyelinase 2 inhibitors based on the pyrazolo[1,5-a]pyrimidin-3-amine scaffold. Eur J Med Chem. 2023 Nov 5;259:115674.

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

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