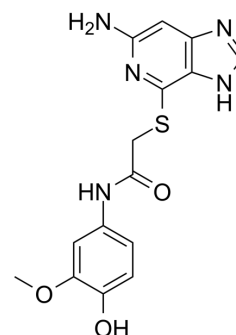


## Enpp-1-IN-11

Cat. No.:	HY-143255
Molecular Formula:	C <sub>15</sub> H <sub>15</sub> N <sub>5</sub> O <sub>3</sub> S
Molecular Weight:	345.38
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Enpp-1-IN-11 (compound 23) is a potent Ecto-nucleotide pyrophosphatase/phosphodiesterases 1 (ENPP1) inhibitor with an K <sub>i</sub> value of 45 nM. Enpp-1-IN-11 exhibits low clearance in human and mouse liver microsomes, good plasma stability in human and mouse plasma. Enpp-1-IN-11 can be used for researching anticancer <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	K <sub>i</sub> : 45 nM (ENPP1) <sup>[1]</sup>	
<b>In Vivo</b>	Enpp-1-IN-11 has low clearance in human and mouse liver microsomes, good plasma stability in human and mouse plasma [1]. Pharmacokinetic Parameters of Enpp-1-IN-11 in female BALB/c mice <sup>[1]</sup> .	
	PO (10 mg/kg)	IV (1 mg/kg)
T <sub>max</sub> (h)		1.2
C <sub>max</sub> (ng/mL)	33.10	1600.20
C <sub>0</sub> (ng/mL)		4546.51
T <sub>max</sub> (h)	0.50	0.08
AUC <sub>last</sub> (ng/mL·h)	29.47	404.40
AUC <sub>inf</sub> (ng/mL·h)	31.78	415.55
AUC <sub>extrap</sub> (%)	7.26	2.68
t <sub>1/2</sub> (h)	0.54	0.11
MRT <sub>last</sub> (h)	0.66	0.07

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CL (mL/min/kg)	40.10
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$V_{SS}$ (L/kg)	0.22
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F (%)	<1
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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Gangar M, et al. Design, synthesis and biological evaluation studies of novel small molecule ENPP1 inhibitors for cancer immunotherapy. Bioorg Chem. 2022 Feb;119:105549.

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

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