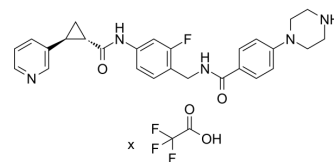


## Nampt-IN-10 TFA

Cat. No.:	HY-147193
CAS No.:	2567724-20-1
Molecular Formula:	$C_{27}H_{28}FN_5O_2 \cdot xC_2HF_3O_2$
Target:	NAMPT
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (Need ultrasonic)
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution</li> </ol>

### BIOLOGICAL ACTIVITY

Description	Nampt-IN-10 TFA (compound 4) is a Nicotinamide Phosphoribosyltransferase (NAMPT) inhibitor. Nampt-IN-10 TFA shows cellular potency to A2780 and CORL23 cells lines with IC <sub>50</sub> s of 5 and 19 nM, respectively. Nampt-IN-10 TFA can be used as a novel non-antimitotic payload for ADCs <sup>[1]</sup> .	
IC <sub>50</sub> & Target	IC <sub>50</sub> : 5 nM (A2780), 19 nM (CORL23), 2 nM (NCI-H526 with c-Kit expressing), 0.4 nM (MDA-MB453 with HER2 expressing), 1 nM (NCI-N87 with HER2 expressing) <sup>[1]</sup>	
In Vitro	Nampt-IN-10 TFA (0-1 μM; 72 h) shows cellular potency to A2780, CORL23, and c-Kit and HER2 expressing cell lines <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>	
	Cell Line:	A2780, CORL23, NCI-H526 with c-Kit expressing, MDA-MB453 and NCI-N87 with HER2 expressing cell lines
	Concentration:	0-1 μM
	Incubation Time:	72 hours
	Result:	Showned cellular potency towards A2780, CORL23, NCI-H526 with c-Kit expressing, MDA-MB453 and NCI-N87 with HER2 expressing cells with IC <sub>50</sub> values of 5, 19, 2, 0.4 and 1 nM,

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respectively.

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## REFERENCES

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[1]. Karpov AS, et al. Nicotinamide Phosphoribosyltransferase Inhibitor as a Novel Payload for Antibody-Drug Conjugates. ACS Med Chem Lett. 2018 Jun 28;9(8):838-842.

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

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