Nampt-IN-10 trihydrochloride

Cat. No.: HY-147193A

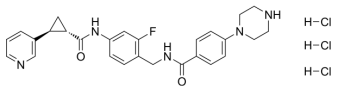
Molecular Formula: $C_{27}H_{31}Cl_3FN_5O_2$

Molecular Weight: 582.92

Target: NAMPT

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nampt-IN-10 trihydrochloride (compound 4) is a Nicotinamide Phosphoribosyltransferase (NAMPT) inhibitor. Nampt-IN-10 trihydrochloride shows cellular potency to A2780 and CORL23 cell lines with IC_{50} values of 5 and 19 nM, respectively. Nampt-IN-10 trihydrochloride can be used as a novel non-antimitotic payload for antibody-drug conjugate (ADC)[1].
IC_{50} & Target	IC50: 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)[1]
In Vitro	Nampt-IN-10 trihydrochloride (0-1 μM; 72 h) shows cytotoxicity to A2780, CORL23, and c-Kit and HER2 expressing cell lines[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay[1]

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:	Showed cytotoxicity to A2780, CORL23, NCI-H526 with c-Kit expressing, MDA-MB453 and NCI-N87 with HER2 expressing cells with IC_{50} values of 5, 19, 2, 0.4 and 1 nM, respectively.

REFERENCES

[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.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA