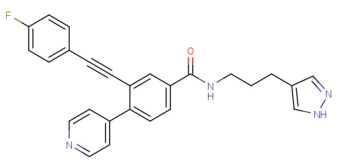
Data Sheet (Cat.No.T12330)

TargetMol
A DRUG SCREENING EXPERT

OT-82

Chemical Properties



CAS No.:	1800487-55-1
Formula:	C26H21FN4O
Molecular Weight:	424.47
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	OT-82 is a potent, selective and orally active NAMPT inhibitor.
Targets(IC_{50})	Nampt: None
In vitro	OT-82 was also more toxic towards patients-derived leukemic cells versus healthy bone marrow-derived hematopoietic precursors. OT-82 was shown to induce cell death by inhibiting nicotinamide phosphoribosyltransferase (NAMPT), the rate-limiting enzyme in the salvage pathway of NAD synthesis.
In vivo	In mice, optimization of OT-82 dosing and dietary niacin further expanded the compound's therapeutic index. In toxicological studies conducted in mice and nonhuman primates, OT-82 showed no cardiac, neurological or retinal toxicities observed with other NAMPT inhibitors and had no effect on mouse aging or longevity. Hematopoietic and lymphoid organs were identified as the primary targets for dose limiting toxicity of OT-82 in both species.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.356 mL	11.779 mL	23.559 mL
5 mM	0.471 mL	2.356 mL	4.712 mL
10 mM	0.236 mL	1.178 mL	2.356 mL
50 mM	0.047 mL	0.236 mL	0.471 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Korotchkina L, et al. OT-82,
a novel anticancer drug candidate that targets the strong dependence of hematological malignancies on NAD biosynthesis.Leukemia. 2020 Jan 2.

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481