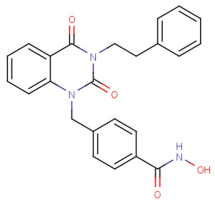
Data Sheet (Cat.No.T11701)

TargetMol
A DRUG SCREENING EXPERT

J22352

Chemical Properties



CAS No.:	2252395-44-9
Formula:	C24H21N3O4
Molecular Weight:	415.44
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	J22352 promotes HDAC6 degradation and induces anticancer effects by inhibiting autophagy and eliciting the antitumor immune response in glioblastoma cancers, and leading to the restoration of host antitumor activity by reducing the immunosuppressive activity of PD-L1.J22352 is a PROTAC (proteolysis-targeting chimeras)-like and highly selective HDAC6 inhibitor with an IC50 value of 4.7 nM.
Targets(IC_{50})	HDAC6: 4.7 nM
In vitro	J22352 (10 μM; 24 hours) shows a dose-dependent decrease in HDAC6 protein abundance. J22352 (0.1-20 μM; 72 hours) decreases U87MG cell viability in a dose-dependent manner.
In vivo	J22352 is well tolerated in mice.J22352 (10 mg/kg; given i.p. per day for 14 days in male nude mice) results in a >80% tumor growth inhibition (TGI) rate.

Solubility Information

Solubility	DMSO: 125 mg/mL (300.89 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.407 mL	12.035 mL	24.071 mL
5 mM	0.481 mL	2.407 mL	4.814 mL
10 mM	0.241 mL	1.204 mL	2.407 mL
50 mM	0.048 mL	0.241 mL	0.481 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. Liu JR, et al. High-selective HDAC6 inhibitor promotes HDAC6 degradation following autophagy modulation and enhanced antitumor immunity in glioblastoma. Biochem Pharmacol. 2019 May; 163:458-471.

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