PROTAC Axl Degrader 1

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®

Cat. No.:	HY-144624	
Molecular Formula:	C ₄₀ H ₄₃ N ₁₁ O ₄	
Molecular Weight:	741.84	Q
Target:	PROTACs; TAM Receptor	
Pathway:	PROTAC; Protein Tyrosine Kinase/RTK	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Product Data Sheet

Description	PROTAC Axl Degrader 1 is a potent and selective PROTAC Axl degrader with an IC ₅₀ of 0.92 μM. PROTAC Axl Degrader 1 shows anti-proliferation activity, anti-migration activity in vitro. PROTAC Axl Degrader 1 induces mehuosis ^[1] .						
IC₅₀ & Target	IC ₅₀ : 0.92 μM (AXL) ^[1]						
In Vitro	PROTAC Axl Degrader 1 (compound 22) (72 h) shows anti-proliferation activity with IC ₅₀ s of 10.34 μM, 5.53 μM, for MDA-MB- 231, 4T1 cells, respectively ^[1] . PROTAC Axl Degrader 1 (0.5, 2 μM; 24, 48 h) decreases the abundance of AXL in MDA-MB-231 cells ^[1] . PROTAC Axl Degrader 1 (1, 2 μM) reduces the expression of AXL, could be restored in the presence of EPO (epoxymycin) ^[1] . PROTAC Axl Degrader 1 (1, 10 μM; 48 h) significantly inhibits the migration in MDA-MB-231 and 4T1 cells ^[1] . PROTAC Axl Degrader 1 (0.5 μM) induces cytoplasmic vacuolation (methuosis) in MDA-MB-231 and 4T1 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]						
	Cell Line:	MDA-MB-231, 4T1, GES-1, MCF-10A cells					
	Concentration:						
	Incubation Time:	72 h					
	Result:	Showed anti-proliferation activity with $IC_{50}s$ of 10.34 $\mu M,$ 5.53 $\mu M,$ for MDA-MB-231, 4T1 cells, respectively.					
	Western Blot Analysis ^[1]						
	Cell Line:	MDA-MB-231 cells					
	Concentration:	0.5, 2 μΜ					
	Incubation Time:	24, 48 h					
	Result:	Decreased AXL abundance in MDA-MB-231 cells.					
In Vivo	PROTAC Axl Degrader 1 (25 PROTAC Axl Degrader 1 (20	mg/kg, i.p.) dose not induce systemic toxicity ^[1] . mg/kg for o.p.; 2 mg/kg for i.v.) shows an oral bioavailability of 4.93% ^[1] .					

Pharmacokinetic Parameters of PROTAC Axl Degrader 1 in 6 weeks, 180-220g, male Sprague-Dawley (SD) rats^[1].

Cmds	Rout	Dose (mg/kg)	AUC _{0-t} (ng∙h/mL)	C _{max} (ng/mL)	T _{max} (h)	T _{1/2} (h)	CL (L/h/kg)	BA (%)
22	i.v.	2	2933.4	166	0.54	0.72	0.68	-
	p.o.	20	864.7	92	1.89	2.37	-	4.93

6 weeks, 180-220g, male Sprague-Dawley (SD) rats; 20 mg/kg for o.p.; 2 mg/kg for i.v.^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shi W, et al. Structure-based discovery of receptor tyrosine kinase AXL degraders with excellent anti-tumor activity by selectively degrading AXL and inducing methuosis. Eur J Med Chem. 2022; 234:114253.

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

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