PROTAC Axl Degrader 2

Cat. No.:	HY-144627
Molecular Formula:	C ₃₈ H ₃₉ N ₁₁ O ₄
Molecular Weight:	713.79
Target:	PROTACs; TAM Receptor
Pathway:	PROTAC; Protein Tyrosine Kinase/RTK
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	Mass Solvent 1 mg Concentration		10 mg	
Preparing Stock Solution	1 mM	1.4010 mL	7.0049 mL	14.0097 mL	
	5 mM	0.2802 mL	1.4010 mL	2.8019 mL	
	10 mM	0.1401 mL	0.7005 mL	1.4010 mL	

BIOLOGICALIACIA					
Description	PROTAC Axl Degrader 2 is a potent and selective PROTAC Axl degrader with an IC ₅₀ of 1.61 μM. PROTAC Axl Degrader 2 shows anti-proliferation activity, anti-migration activity in vitro. PROTAC Axl Degrader 2 induces mehuosis ^[1] .				
IC ₅₀ & Target	IC ₅₀ : 1.61 μM (AXL) ^[1]				
In Vitro	PROTAC Axl Degrader 2 (compound 20) (72 h) shows anti-proliferation activity with IC50 s of 6.23 μM, 2.06 μM, for MDA-MB-231, 4T1 cells, respectively ^[1] .PROTAC Axl Degrader 2 (0.5, 2 μM; 24, 48 h) decreases the abundance of AXL in MDA-MB-231 cells ^[1] .PROTAC Axl Degrader 2 (1, 2 μM) reduces the expression of AXL, can be restored in the presence of EPO (epoxymycin) ^[1] .PROTAC Axl Degrader 2 (1, 10 μM; 48 h) significantly inhibits the migration in MDA-MB-231 and 4T1 cells ^[1] .PROTAC Axl Degrader 2 (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 Line:MDA-MB-231, 4T1, GES-1, MCF-10A cells				

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72 h			
Showed anti-proliferation activity with IC_{50}s of 6.23 $\mu\text{M},$ 2.06 $\mu\text{M},$ for MDA-MB-231, 4T1 cells, respectively.			
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 2 (25 mg/kg, i.p.) dose not induce systemic toxicity^[1]. PROTAC Axl Degrader 2 (20 mg/kg for o.p.; 2 mg/kg for i.v.) shows an oral bioavailability of 7.80%^[1]. Pharmacokinetic Parameters of PROTAC Axl Degrader 2 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 (%)
20	i.v.	2	7581.3	279	0.82	1.18	0.72	-
	p.o.	20	3592.1	144	2.25	4.43	-	7.80

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

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

Animal Model:	Female balb/c nude mice (MDA-MB-231 xenografts) ^[1]
Dosage:	25 mg/kg
Administration:	Intraperitoneal injection
Result:	Did not induce systemic toxicity.
Animal Model:	6 weeks, 180-220g, male Sprague-Dawley (SD) rats ^[1]
Dosage:	
Administration:	20 mg/kg for o.p.; 2 mg/kg for i.v.
Result:	Showed an oral bioavailability of 7.80%.

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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