## ADH-6 TFA

Cat. No.:	HY-145785A	
CAS No.:	2990065-87-5	0 V
Molecular Formula:	$C_{31}H_{37}F_3N_8O_{11}$	N
Molecular Weight:	754.67	$H_2N \sim O \uparrow O$
Target:	Apoptosis; MDM-2/p53	
Pathway:	Apoptosis	
Storage:	4°C, sealed storage, away from moisture	Ö NH2
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutio	1 mM	1.3251 mL	6.6254 mL	13.2508 mL
	5 mM	0.2650 mL	1.3251 mL 2.6502	2.6502 mL
	10 mM	0.1325 mL	0.6625 mL	1.3251 mL

<b>BIOLOGICAL ACTIV</b>	ΙТΥ — — — — — — — — — — — — — — — — — — —		
Description	ADH-6 TFA is a tripyridylamide compound. ADH-6 abrogates self-assembly of the aggregation-nucleating subdomain of mutant p53 DBD. ADH-6 TFA targets and dissociates mutant p53 aggregates in human cancer cells, which restores p53's transcriptional activity, leading to cell cycle arrest and apoptosis. ADH-6 TFA has the potential for the research of cancer diseases <sup>[1]</sup> .		
In Vitro	ADH-6 (25 μM, 10 h) TFA ir ADH-6 (5 μM, 6 h) TFA diss ADH-6 (0-10 μM, 24 or 48 h ADH-6 (5 μM, 24 h) TFA sp MCE has not independent Cell Viability Assay <sup>[1]</sup>	M, 10 h) TFA inhibits aggregation of pR248W (indicated by dot blot assay) <sup>[1]</sup> . I, 6 h) TFA dissociates intracellular mutant p53 aggregates in MIA PaCa-2 cells <sup>[1]</sup> . μM, 24 or 48 h) TFA causes selective cytotoxicity in cancer cells bearing mutant p53 (MIA PaCa-2) <sup>[1]</sup> . I, 24 h) TFA specifically targets and reactivates aggregation-prone mutant p53 in MIA PaCa-2 cells <sup>[1]</sup> . t independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	MIA PaCa-2 (mutant R248W p53), SK-BR-3 (mutant R175H p53)	
	Concentration:	0, 2.5, 5, 7.5, 10 μΜ	
	Incubation Time:	24, 48 h	
	Incubation Time:	24, 48 h	

RedChemExpress

	Result:	Caused death of cancer cells bearing mutant, but not WT, p53.
	Western Blot Analysis <sup>[1]</sup>	
	Cell Line:	MIA PaCa-2 cells
	Concentration:	5 μΜ
	Incubation Time:	24 h
	Result:	Increased expression of p53-inducible MDM2 and proapoptotic Bax.
In Vivo	ADH-6 (intraperitoneal i bearing tumors <sup>[1]</sup> . MCE has not independe	injection, 15 mg/kg, every 2 days, for a total of 12 doses) TFA causes regression of mutant p53- ntly confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	MIA PaCa-2 xenografts <sup>[1]</sup>
	Dosage:	716.4 μM in 0.02% DMSO
	Administration:	Intraperitoneal injection, every 2 days, for a total of 12 doses
	Result:	Reduced tumor growth relative to the saline-treated control group. Reduced mutant p53 levels and shrinked xenografts harboring aggregation-prone mutant p53.
	Animal Model:	MIA PaCa-2 xenografts (pharmacokinetics assay) <sup>[1]</sup>
	Dosage:	15 mg/kg
	Administration:	Intraperitoneal injection, for a single dose
	Describe	C

## REFERENCES

[1]. Palanikumar L, et al. Protein mimetic amyloid inhibitor potently abrogates cancer-associated mutant p53 aggregation and restores tumor suppressor function. Nat Commun. 2021;12(1):3962.

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