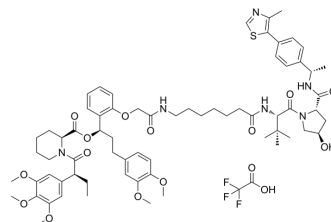


## dTAGV-1 TFA

<b>Cat. No.:</b>	HY-145514
<b>CAS No.:</b>	2624313-15-9
<b>Molecular Formula:</b>	C <sub>70</sub> H <sub>91</sub> F <sub>3</sub> N <sub>6</sub> O <sub>16</sub> S
<b>Molecular Weight:</b>	1361.56
<b>Target:</b>	PROTACs
<b>Pathway:</b>	PROTAC
<b>Storage:</b>	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 37.5 mg/mL (27.54 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	<b>Preparing Stock Solutions</b>			1 mg	5 mg	10 mg
		1 mM		0.7345 mL	3.6723 mL	7.3445 mL
		5 mM		0.1469 mL	0.7345 mL	1.4689 mL
	10 mM		0.0734 mL	0.3672 mL	0.7345 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.75 mg/mL (2.75 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.75 mg/mL (2.75 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	dTAGV-1 TFA is a potent and selective degrader of mutant FKBP12 <sup>F36V</sup> fusion proteins. dTAGV-1 TFA can induce degradation of FKBP12 <sup>F36V</sup> -Nluc in vivo <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	VHL
<b>In Vitro</b>	dTAGV-1 (0.1 nM-10 μM; 24 h) TFA induces potent degradation of FKBP12 <sup>F36V</sup> -Nluc with no effects on FKBP12 <sup>WT</sup> -Nluc in 293FT cells <sup>[1]</sup> . dTAGV-1 (125-2000 nM; 24 h) TFA co-treatment with THAL-SNS-032 leads to pronounced degradation of both LACZ-FKBP12 <sup>F36V</sup> and CDK9 <sup>[1]</sup> . dTAGV-1 (500 nM; 1-24 h) TFA leads to rapid KRAS <sup>G12V</sup> and pERK1/2 degradation <sup>[1]</sup> . dTAGV-1 (50-5000 nM; 24 h) TFA enables EWS/FLI degradation in Ewing sarcoma <sup>[1]</sup> .

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

#### In Vivo

dTAGV-1 (35 mg/kg; i.p. once daily for 4 days) TFA induces degradation of FKBP12<sup>F36V</sup>-Nluc in mice<sup>[1]</sup>.  
dTAGV-1 (2-10 mg/kg; i.p.) TFA exhibits half-lives ( $T_{1/2}$ =3.64 and 4.4 h),  $C_{max}$  (595 and 2123 ng/mL) and great exposure ( $AUC_{inf}$  =3136 and 18517 h•ng/mL) in mice<sup>[1]</sup>.

dTAGV-1 (2 mg/kg; i.v.) TFA exhibits half-life ( $T_{1/2}$ =3.02 h),  $C_{max}$  (7780 ng/mL) and great exposure ( $AUC_{inf}$  =3329 h•ng/mL) in mice<sup>[1]</sup>.

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

Animal Model:	8-week-old immunocompromised female mice were transplanted with MV4;11 luc-FKBP12 F36V cells <sup>[1]</sup>
Dosage:	35 mg/kg
Administration:	I.p. once daily for 4 days
Result:	Observed striking loss of bioluminescent signal 4 h after the first and three administrations. Degradation evident 28 h after the final administration.

## REFERENCES

[1]. Nabet B, et, al. Rapid and direct control of target protein levels with VHL-recruiting dTAG molecules. Nat Commun. 2020 Sep 18;11(1):4687.

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

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