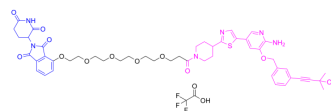


## SS47 TFA

Cat. No.:	HY-146231A
Molecular Formula:	C <sub>51</sub> H <sub>57</sub> F <sub>3</sub> N <sub>6</sub> O <sub>14</sub> S
Molecular Weight:	1067.09
Target:	MAP4K; PROTACs
Pathway:	MAPK/ERK Pathway; PROTAC
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

In Vitro	DMSO : 100 mg/mL (93.71 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	0.9371 mL	4.6856 mL	9.3713 mL
				5 mM	0.1874 mL	0.9371 mL	1.8743 mL
				10 mM	0.0937 mL	0.4686 mL	0.9371 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.34 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.34 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.34 mM); Clear solution						

## BIOLOGICAL ACTIVITY

Description	SS47 TFA, a PROTAC-based HPK1 degrader, exerts proteasome-mediated HPK1 degradation. The degradation of HPK1 via SS47 also significantly enhances the in vivo antitumor efficacy of BCMA CAR-T cell research. HPK1, an immunosuppressive regulatory kinase, is a promising target for cancer immunotherapies <sup>[1]</sup> . SS47 (TFA) is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
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## REFERENCES

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[1]. Jingwen Si, et al. Hematopoietic Progenitor Kinase1 (HPK1) Mediates T Cell Dysfunction and Is a Druggable Target for T Cell-Based Immunotherapies. Cancer Cell. 2020 Oct 12;38(4):551-566.e11.

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

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