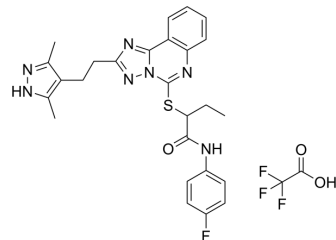


NCGC00138783 TFA

Cat. No.:	HY-143224B
Molecular Formula:	C ₂₈ H ₂₇ F ₄ N ₇ O ₃ S
Molecular Weight:	617.62
Target:	Others
Pathway:	Others
Storage:	4°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

In Vitro	DMSO : 50 mg/mL (80.96 mM); ultrasonic and warming and heat to 60°C					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.6191 mL	8.0956 mL	16.1912 mL
		5 mM		0.3238 mL	1.6191 mL	3.2382 mL
10 mM		0.1619 mL	0.8096 mL	1.6191 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.02 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	NCGC00138783 TFA is a selective inhibitor targeting CD47/SIRPα axis, with an IC ₅₀ of 50 μM. NCGC00138783 TFA directly blocks the interaction between CD47 and SIRPα axis ^{[1][2]} .
IC₅₀ & Target	CD47/SIRPα axis ^[1]

REFERENCES

- [1]. Junqiao Zhu, et al. CD47-SIRPα axis in cancer therapy: Precise delivery of CD47-targeted therapeutics and design of anti-phagocytic drug delivery systems. *Medicine in Drug Discovery*. 2022. 15:100139
- [2]. Bo Huang, et al. Structural analysis and binding sites of inhibitors targeting the CD47/SIRPα interaction in anticancer therapy. *Comput Struct Biotechnol J*. 2021 Oct 1;19:5494-5503.

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