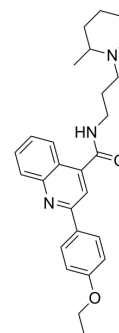


IRF5-IN-1

Cat. No.:	HY-149652		
CAS No.:	689270-18-6		
Molecular Formula:	C ₂₇ H ₃₃ N ₃ O ₂		
Molecular Weight:	431.57		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (115.86 mM; ultrasonic and warming and heat to 80°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3171 mL	11.5856 mL	23.1712 mL
	5 mM	0.4634 mL	2.3171 mL	4.6342 mL
	10 mM	0.2317 mL	1.1586 mL	2.3171 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

IRF5-IN-1 (compound C5) is an IRF5 pathway-specific inhibitor. IRF5-IN-1 significantly reduces IRF5 nuclear translocation without affecting the activation of NF-κB p65. IRF5-IN-1 acts through SLC15A4 to selectively inhibit TLR7/8-induced IRF5 responses in cells^[1].

REFERENCES

- [1]. Andras Boeszoermy, et al. A conformation-locking inhibitor of SLC15A4 with TASL proteostatic anti-inflammatory activity. Nat Commun. 2023 Oct 20;14(1):6626.

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

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