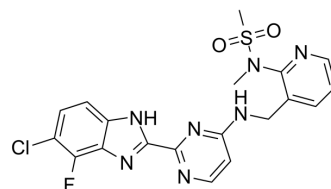


MSC-1186

Cat. No.:	HY-148518	
CAS No.:	2871698-23-4	
Molecular Formula:	C ₁₉ H ₁₇ ClFN ₇ O ₂ S	
Molecular Weight:	461.9	
Target:	SRPK	
Pathway:	Cell Cycle/DNA Damage	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (270.62 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.1650 mL	10.8249 mL	21.6497 mL
		5 mM		0.4330 mL	2.1650 mL	4.3299 mL
10 mM		0.2165 mL	1.0825 mL	2.1650 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: ≥ 2.08 mg/mL (4.50 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.50 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	MSC-1186 is a highly selective pan-SRPK inhibitor. MSC-1186 has activity for SRPK1, SRPK2 and SRPK3 with IC ₅₀ values of 2.7 nM, 81 nM and 0.6 nM, respectively. MSC-1186 can be used for the research of cancer ^[1] .
IC ₅₀ & Target	IC ₅₀ : 2.7 nM (SRPK1), 81 nM (SRPK2), 0.6 nM (SRPK3); EC ₅₀ in HEK293T cells: 98 nM (SRPK1), 40 nM (SRPK3) ^[1] .
In Vitro	MSC-1186 has activity for SRPK1 and SRPK3 in HEK293T cells with EC ₅₀ values of 98 nM and 40 nM, respectively ^[1] . MSC-1186 has activity for SRPK1, SRPK2 and SRPK3 with IC ₅₀ values of 2.7 nM, 81 nM and 0.6 nM, respectively ^[1] . MSC-1186 has excellent kinome-wide selectivity ^[1] . MSC-1186 shows additive attenuation of SR-protein phosphorylation when is used in combination with CDC2-like kinase (CLK) inhibitors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Martin Schröder, et al. MSC-1186, a Highly Selective Pan-SRPK Inhibitor Based on an Exceptionally Decorated Benzimidazole-Pyrimidine Core. J Med Chem. 2022 Dec 14.

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

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