SRI-011381 hydrochloride

Cat. No.:	HY-100347A	
CAS No.:	2070014-88-7	o
Molecular Formula:	C ₂₀ H ₃₂ ClN ₃ O	
Molecular Weight:	365.94	HN, HN, H
Target:	TGF-beta/Smad	
Pathway:	Stem Cell/Wnt; TGF-beta/Smad	
Storage:	4°C, sealed storage, away from moisture	H–Cl
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.7327 mL	13.6634 mL	27.3269 mL		
		5 mM	0.5465 mL	2.7327 mL	5.4654 mL		
		10 mM	0.2733 mL	1.3663 mL	2.7327 mL		
	Please refer to the so	lubility information to select the ap	propriate solvent.				
In Vivo		1. Add each solvent one by one: PBS Solubility: 50 mg/mL (136.63 mM); Clear solution; Need ultrasonic					
		2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.83 mM); Clear solution					
		3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.83 mM); Clear solution					
	4. Add each solvent	 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.83 mM); Clear solution 					

BIOLOGICAL ACTIVITY				
Description	SRI-011381 hydrochloride is an orally active TGF- β signaling agonist, exhibits neuroprotective effects ^{[1][2]} .			
IC ₅₀ & Target	TGF-beta ^[1]			
In Vitro	SRI-011381 (10 μ M) hydrochloride promotes the proliferation of mouse lung fibroblasts, and significantly increases TGF- β 1, NALP3, collagen-1, and α -SMA expression ^[1] .			

Product Data Sheet



	MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	SRI-011381 (30 mg/kg; i.p.; every 2 d; for 22 days) hydrochloride partially rescues the deficits in optic nerve and retina of YAPGFAP-CKO EAE mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	YAPGFAP-CKO mice bearing experimental autoimmune encephalomyelitis (EAE) ^[2]	
	Dosage:	30 mg/kg	
	Administration:	Intraperitoneally injection; every 2 d; for 22 days	
	Result:	Significantly inhibited inflammatory infiltration and relieved the loss of neurons in YAPGFAP-CKO EAE mice.	

CUSTOMER VALIDATION

- Nature. 2023 Jan;613(7942):120-129.
- Theranostics. 2021; 11(17):8480-8499.
- Cell Commun Signal. 2023 Jul 4;21(1):168.
- Cell Mol Biol Lett. 2023 Feb 27;28(1):15.
- Phytomedicine. 1 June 2022, 154234.

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REFERENCES

[1]. Jingyin Han, et al. The Improvement Effect of Sodium Ferulate on the Formation of Pulmonary Fibrosis in Silicosis Mice Through the Neutrophil Alkaline Phosphatase 3 (NALP3)/Transforming Growth Factor- β 1 (TGF- β 1)/ α -Smooth Muscle Actin (α -SMA) Pathway. Med

[2]. Qian Wu, et al. Astrocytic YAP protects the optic nerve and retina in an experimental autoimmune encephalomyelitis model through TGF-β signaling. Theranostics. 2021 Jul 25;11(17):8480-8499.

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

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