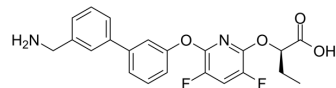


ZK824190

Cat. No.:	HY-126361
CAS No.:	2254001-81-3
Molecular Formula:	C ₂₂ H ₂₀ F ₂ N ₂ O ₄
Molecular Weight:	414.4
Target:	Ser/Thr Protease; PAI-1
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (603.28 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.4131 mL	12.0656 mL	24.1313 mL
				5 mM	0.4826 mL	2.4131 mL	4.8263 mL
				10 mM	0.2413 mL	1.2066 mL	2.4131 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 (5.02 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.02 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	ZK824190 is an orally available and selective urokinase plasminogen activator (uPA) inhibitor as a potential treatment for multiple sclerosis. IC ₅₀ s of 237, 1600 and 1850 nM for uPA, tPA, and Plasmin, respectively ^[1] .	
IC ₅₀ & Target	IC ₅₀ : 237 nM (uPA), 1600 nM (tPA), 1850 nM (Plasmin) ^[1]	
In Vivo	ZK824190 (2 mg/kg; PO) exhibits a relatively high oral availability and a moderate half time (T _{1/2} =2.8 h) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Rats with experimental autoimmune encephalomyelitis (EAE) model ^[1]

Dosage:	2 mg/kg (Pharmacokinetic Analysis)
Administration:	PO
Result:	Oral availability F=55%; C _{max} =0.64 g/mL and AUC=2.2 h*g/mL; T _{1/2} =2.8 h.

REFERENCES

[1]. Islam I, et al. Discovery of selective urokinase plasminogen activator (uPA) inhibitors as a potential treatment for multiple sclerosis. Bioorg Med Chem Lett. 2018 Nov 1;28(20):3372-3375.

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

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