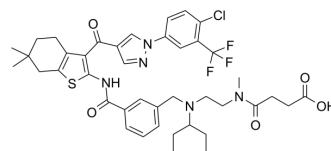


NaPi2b-IN-2

Cat. No.:	HY-145894
CAS No.:	2227445-31-8
Molecular Formula:	C ₄₁ H ₄₇ ClF ₃ N ₅ O ₅ S
Molecular Weight:	814.36
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 : 100 mg/mL (122.80 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	1.2280 mL	6.1398 mL	12.2796 mL	
		5 mM	0.2456 mL	1.2280 mL	2.4559 mL	
	10 mM	0.1228 mL	0.6140 mL	1.2280 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: 2.5 mg/mL (3.07 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	NaPi2b-IN-2 (compound 5) is a potent inhibitor of sodium-dependent transport protein 2b (SLC34A2, NaPi2b), with an IC ₅₀ of 38 nM for human NaPi2b. NaPi2b-IN-2 can be used for the research of hyperphosphatemia ^[1] .
IC ₅₀ & Target	IC ₅₀ : 38 nM (human NaPi2b) ^[1]

REFERENCES

[1]. Ushiki Y, et, al. Design, synthesis and biological evaluation of novel 1H-pyrazole-4-carbonyl-4,5,6,7-tetrahydrobenzo [b]thiophene derivatives as gut-selective NaPi2b inhibitors. Bioorg Med Chem Lett. 2022 Mar 1;59:128572.

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

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