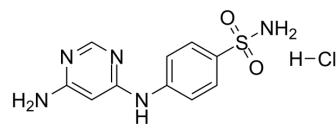


## PNU112455A hydrochloride

Cat. No.:	HY-112468
CAS No.:	21886-12-4
Molecular Formula:	C <sub>10</sub> H <sub>12</sub> ClN <sub>5</sub> O <sub>2</sub> S
Molecular Weight:	301.75
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (414.25 mM; Need ultrasonic)					
	H <sub>2</sub> O : 20 mg/mL (66.28 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	3.3140 mL	16.5700 mL	33.1400 mL
			5 mM	0.6628 mL	3.3140 mL	6.6280 mL
10 mM			0.3314 mL	1.6570 mL	3.3140 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 (6.89 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.89 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.89 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	PNU112455A hydrochloride is an ATP-competitive CDK2 and CDK5 inhibitor. PNU112455A hydrochloride binds to the ATP site of CDK2 and CDK5 with K <sub>m</sub> s of 3.6 and 3.2 μM, respectively <sup>[1]</sup> .	
IC <sub>50</sub> & Target	CDK2 3.6 μM (Km)	CDK5 3.2 μM (Km)

### REFERENCES

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

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