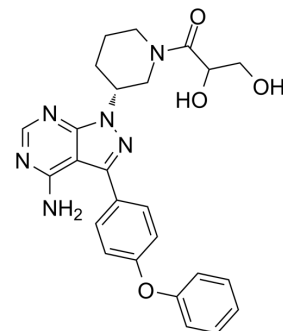


## Dihydrodiol-Ibrutinib

Cat. No.:	HY-100659		
CAS No.:	1654820-87-7		
Molecular Formula:	C <sub>25</sub> H <sub>26</sub> N <sub>6</sub> O <sub>4</sub>		
Molecular Weight:	474.51		
Target:	Btk		
Pathway:	Protein Tyrosine Kinase/RTK		
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 (210.74 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1074 mL	10.5372 mL	21.0744 mL
		5 mM	0.4215 mL	2.1074 mL	4.2149 mL
10 mM		0.2107 mL	1.0537 mL	2.1074 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 (5.27 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Dihydrodiol-Ibrutinib (PCI-45227) is a dihydrodiol active metabolite of Ibrutinib (HY-10997), has inhibitory activity towards BTK approximately 15 times lower than that of ibrutinib <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : BTK <sup>[1]</sup>

### REFERENCES

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

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