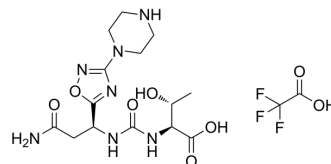


## PD1-PDL1-IN 1 TFA

Cat. No.:	HY-101058A
Molecular Formula:	C <sub>16</sub> H <sub>24</sub> F <sub>3</sub> N <sub>7</sub> O <sub>8</sub>
Molecular Weight:	499.4
Target:	PD-1/PD-L1
Pathway:	Immunology/Inflammation
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (200.24 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.0024 mL	10.0120 mL	20.0240 mL
				5 mM	0.4005 mL	2.0024 mL	4.0048 mL
				10 mM	0.2002 mL	1.0012 mL	2.0024 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 (5.01 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.01 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.01 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	PD1-PDL1-IN 1 TFA (compound 16) is a potent programmed cell death 1 (PD-1) inhibitor. PD1-PDL1-IN 1 TFA is useful as immune modulator <sup>[1]</sup> .
In Vitro	PD-1 (or Programmed Cell Death 1 or PDCD1) is a ~55kD type I membrane glycoprotein and is a receptor of the CD28 superfamily that negatively regulates T cell antigen receptor signalling by interacting with the specific ligands. PD-1 is suggested to play significant role in the maintenance of self-tolerance <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Pottayil Govindan Nair Sasikumar , et al. 3-substituted-1,2,4-oxadiazole and thiadiazole compounds as immunomodulators. WO2016142886A2.

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

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