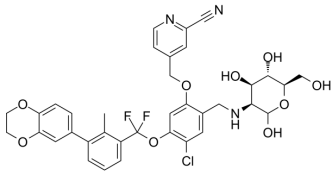
PD-1/PD-L1-IN-13

Cat. No.:	HY-145239
CAS No.:	2865841-81-0
Molecular Formula:	$C_{36}H_{34}ClF_2N_3O_9$
Molecular Weight:	726.12
Target:	PD-1/PD-L1
Pathway:	Immunology/Inflammation
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 : 150 mg/mL (206.58 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3772 mL	6.8859 mL	13.7718 mL
	5 mM	0.2754 mL	1.3772 mL	2.7544 mL
	10 mM	0.1377 mL	0.6886 mL	1.3772 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: ≥ 3.75 mg/mL (5.16 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3.75 mg/mL (5.16 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3.75 mg/mL (5.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PD-1/PD-L1-IN-13 (Compound 43) is a potent immune checkpoint PD-1/PD-L1 inhibitor with an IC_{50} value of 10.2 nM. PD-1/PD-L1-IN-13 promots $CD8^+$ T cell activation and delays the tumor growth in the Hepa1-6 syngeneic mouse model[1].

REFERENCES

[1]. Song Z, et al. Design, Synthesis, and Pharmacological Evaluation of Biaryl-Containing PD-1/PD-L1 Interaction Inhibitors Bearing a Unique Difluoromethyleneoxy Linkage. J Med Chem. 2021;64(22):16687-16702.

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