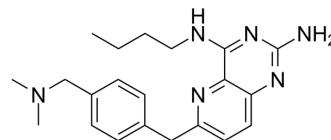


D18

Cat. No.:	HY-144501		
CAS No.:	2230218-36-5		
Molecular Formula:	C ₂₁ H ₂₈ N ₆		
Molecular Weight:	364.49		
Target:	Toll-like Receptor (TLR); 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 : 100 mg/mL (274.36 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.7436 mL	13.7178 mL	27.4356 mL
	5 mM		0.5487 mL	2.7436 mL	5.4871 mL
	10 mM		0.2744 mL	1.3718 mL	2.7436 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (6.86 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (6.86 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (6.86 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

D18 is an immune modulator. D18 acts as a TLR7/8 dual agonist (EC₅₀=24 nM for hTLR7 and 10 nM for hTLR8, respectively). D18 increases PD-L1 expression through epigenetic regulation, thus sensitizing tumors to PD-1/PD-L1 blockade. D18 is a ADC cytotoxin used for the synthesis of ADC HE-S2^[1].

REFERENCES

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

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