PD-L1-IN-3

®

MedChemExpress

Cat. No.:	HY-155101	
CAS No.:	2953044-29-4	
Molecular Formula:	C ₁₉ H ₁₆ ClFN ₂ OS	F N HCI
Molecular Weight:	374.86	
Target:	PD-1/PD-L1	
Pathway:	Immunology/Inflammation	₩ NH ₂
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

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6677 mL	13.3383 mL	26.6766 mL
		5 mM	0.5335 mL	2.6677 mL 5.33	5.3353 mL
		10 mM	0.2668 mL	1.3338 mL	2.6677 mL

BIOLOGICAL ACTIV	ΊΤΥ		
Description	PD-L1-IN-3 (Compound 4a) is a compound that targets PD-1/PD-L1, the IC ₅₀ value and EC ₅₀ value is 4.97nM and 2.70 μM for inhibit PD-L1 and Jurkat T cells, respectively. PD-L1-IN-3 can bind PD-L1 dimer to prevent PD-1 binding to PD-L1, therefore blocking PD-1 signaling. PD-L1-IN-3 can be used for lung cancer and melanoma diseases research ^[1] .		
In Vitro	PD-L1-IN-3 (Compound 4a) (0.01-100 μM, 40 min) disrupts the binding between PD-1 and PD-L1 and enhances a TCR- mediated activation of the Jurkat cells ^[1] . PD-L1-IN-3 (0.01-100 μM, 40 min) has higher uptake which correlated with PD-L1 expression in PD-L1 ⁺ H358 tumors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]		
	Cell Line:	Jurkat cells	
	Concentration:	0.01-100 μΜ	
	Incubation Time:	40 min	
	Result:	Observed EC $_{50}$ value of 2.70 $\mu\text{M}.$	



Immunofluorescence ^[1]	
Cell Line:	PD-L1 ^{+/-} (H358 and ES2) tumor
Concentration:	0.01-100 μΜ
Incubation Time:	40 min
Result:	Observed 40-55% higher uptake in PD-L1 ⁺ H358 tumors than in wild-type counterparts Failed to discriminate between wild-type and knock-out for ES2 slides.

REFERENCES

[1]. Ważyńska MA, et al. Design, Synthesis, and Biological Evaluation of 2-Hydroxy-4-phenylthiophene-3-carbonitrile as PD-L1 Antagonist and Its Comparison to Available Small Molecular PD-L1 Inhibitors. J Med Chem. 2023 Jul 27;66(14):9577-9591.

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

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