## Cbl-b-IN-2

Cat. No.:	HY-141431		
CAS No.:	2503325-21-9		
Molecular Formula:	$C_{29}H_{30}F_{5}N_{5}O_{2}$		
Molecular Weight:	575.57		
Target:	E3 Ligase Ligand-Linker Conjugates		
Pathway:	PROTAC		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.7374 mL	8.6870 mL	17.3741 mL		
		5 mM	0.3475 mL	1.7374 mL	3.4748 mL		
		10 mM	0.1737 mL	0.8687 mL	1.7374 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.5 mg/mL (6.08 mM); Clear solution					
		<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)</li> <li>Solubility: 3.5 mg/mL (6.08 mM); Suspended solution; Need ultrasonic</li> </ol>					
		one by one: 10% DMSO >> 90% cor g/mL (6.08 mM); Clear solution	n oil				

BIOLOGICAL ACTIV	
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Description	Cbl-b-IN-2 (Example 8) is an orally bioavailable compound, can inhibit the E3 enzyme Casitas B-lineage lymphoma proto- oncogene-b (Cbl-b) in the ubiquitin proteasome pathway. Cbl-b-IN-2 can be used to modulate the immune system and diseases amenable to immune system modulation. Cbl-b-IN-2 (Example 8) also may be administered to an individual with cancer, either alone or as part of a combination, with one or more of an immune checkpoint inhibitor, an anti-neoplastic agent, and radiation agent <sup>[1]</sup> .
In Vitro	Cbl-b-IN-2 (Example 8) is a Cbl-b inhibitor with IC <sub>50</sub> values range of 5.1-100 nM and 🛛 1 nM in high and low concentration of



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Product Data Sheet

Cbl-b, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>		
Cell Line:	Immune cell	
Concentration:	0.125 nM, 0.15 nM	
Incubation Time:	1 h	
Result:	Showed Cbl-b activity with an with IC <sub>50</sub> values range of 5.1-100 nM and 🛙 nM in high and low concentration of Cbl-b, respectively.	

## REFERENCES

[1]. Arthur T. Sands, et al. 3-substituted piperidine compounds for cbl-b inhibition, and use of a cbl-b inhibitor in combination with a cancer vaccine and/or oncolytic virus. Patent WO 2020210508A1.

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

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