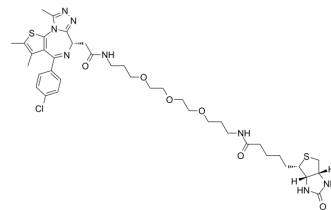


## Biotinylated-JQ1

<b>Cat. No.:</b>	HY-145667
<b>CAS No.:</b>	1635437-52-3
<b>Molecular Formula:</b>	C <sub>39</sub> H <sub>53</sub> ClN <sub>8</sub> O <sub>6</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	829.47
<b>Target:</b>	Epigenetic Reader Domain
<b>Pathway:</b>	Epigenetics
<b>Storage:</b>	-20°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 180 mg/mL (217.01 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.2056 mL	6.0279 mL	12.0559 mL
		<b>5 mM</b>		0.2411 mL	1.2056 mL	2.4112 mL
	<b>10 mM</b>		0.1206 mL	0.6028 mL	1.2056 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 4.5 mg/mL (5.43 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 4.5 mg/mL (5.43 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 4.5 mg/mL (5.43 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Biotinylated-JQ1 (Biotin-JQ1) is a biotinylated derivative of JQ1 with high affinity for the bromodomain of BRD4. Biotinylated-JQ1 inhibits MM1.S multiple myeloma cells proliferation with the EC <sub>50</sub> of 0.4 μM <sup>[1]</sup> .
<b>In Vitro</b>	Biotinylated-JQ1 (0.1 nM-100 μM; 72 hours) inhibits MM1.S cell proliferation with an EC <sub>50</sub> of 0.4 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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