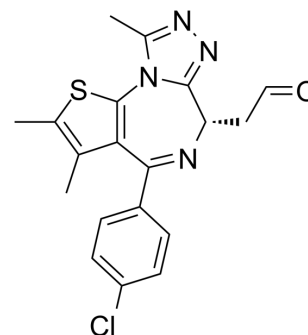


## (+)-JQ-1-aldehyde

<b>Cat. No.:</b>	HY-131633A
<b>CAS No.:</b>	2634778-37-1
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>17</sub> ClN <sub>4</sub> OS
<b>Molecular Weight:</b>	384.88
<b>Target:</b>	Epigenetic Reader Domain
<b>Pathway:</b>	Epigenetics
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (259.82 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>		2.5982 mL	12.9911 mL	25.9821 mL
		<b>5 mM</b>		0.5196 mL	2.5982 mL	5.1964 mL
<b>10 mM</b>		0.2598 mL	1.2991 mL	2.5982 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: ≥ 2.5 mg/mL (6.50 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.50 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.50 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	(+)-JQ-1-aldehyde is the aldehyde form of (+)-JQ1. (+)-JQ-1-aldehyde can be used as a precursor to synthesize PROTACs, which targets BET bromodomains <sup>[1]</sup> .
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### REFERENCES

[1]. James Elliott Bradner, et al. Male contraceptive compositions and methods of use. Patent WO2019199816A1 .

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

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