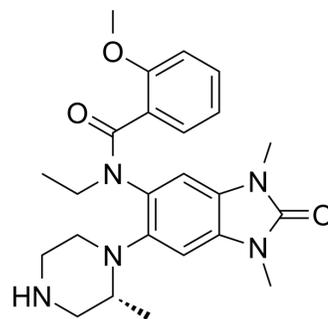


## GSK9311

<b>Cat. No.:</b>	HY-100729		
<b>CAS No.:</b>	1923851-49-3		
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>31</sub> N <sub>5</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	437.53		
<b>Target:</b>	Epigenetic Reader Domain		
<b>Pathway:</b>	Epigenetics		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (228.56 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.2856 mL	11.4278 mL	22.8556 mL
		5 mM	0.4571 mL	2.2856 mL	4.5711 mL
10 mM		0.2286 mL	1.1428 mL	2.2856 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 (5.71 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 (5.71 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (5.71 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	GSK9311, a less active analogue of GSK6853, can be used as a negative control. GSK9311 inhibits BRPF bromodomain with pIC <sub>50</sub> values of 6.0 and 4.3 for BRPF1 and BRPF2, respectively <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	BRPF1 6.0 (pIC <sub>50</sub> )	BRPF2 4.3 (pIC <sub>50</sub> )
<b>In Vitro</b>	GSK6853 is a potent (300 pM), soluble, cell active (20 nM), and highly selective inhibitor of the BRPF1 bromodomain, and	

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demonstrates properties suitable for cellular and in vivo studies. GSK6853 is a less active analogue of GSK6853 in which the 5-amide is alkylated<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Bamborough P, et al. GSK6853, a Chemical Probe for Inhibition of the BRPF1 Bromodomain. ACS Med Chem Lett. 2016 May 9;7(6):552-7.

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

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