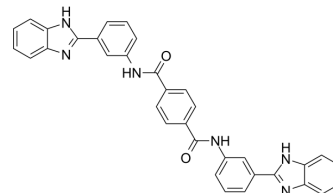


## NSC61610

<b>Cat. No.:</b>	HY-102019		
<b>CAS No.:</b>	500538-94-3		
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>24</sub> N <sub>6</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	548.59		
<b>Target:</b>	Interleukin Related		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (182.29 mM; Need ultrasonic)																										
	<table border="1"> <thead> <tr> <th rowspan="2">Concentration</th> <th colspan="2">Solvent</th> <th rowspan="2">1 mg</th> <th rowspan="2">5 mg</th> <th rowspan="2">10 mg</th> </tr> <tr> <th>Mass</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td></td> <td></td> <td>1.8229 mL</td> <td>9.1143 mL</td> <td>18.2285 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td></td> <td>0.3646 mL</td> <td>1.8229 mL</td> <td>3.6457 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td></td> <td>0.1823 mL</td> <td>0.9114 mL</td> <td>1.8229 mL</td> </tr> </tbody> </table>	Concentration	Solvent		1 mg	5 mg	10 mg	Mass	Concentration	1 mM			1.8229 mL	9.1143 mL	18.2285 mL	5 mM			0.3646 mL	1.8229 mL	3.6457 mL	10 mM			0.1823 mL	0.9114 mL	1.8229 mL
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	Please refer to the solubility information to select the appropriate solvent.																										
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.56 mM); Clear solution																										

### BIOLOGICAL ACTIVITY

<b>Description</b>	NSC61610 disrupts hIL-18 binding to the ectromelia virus IL-18BP. NSC61610 inhibits hIL-18:ectvIL-18BP complex formation with an IC <sub>50</sub> about 6 μM <sup>[1]</sup> .
<b>In Vitro</b>	NSC61610 has a predicted Ki value of 88 nM between β strands β5 and β8 (virtual screening) <sup>[1]</sup> . NSC61610 inhibits hIL-18:ectvIL-18BP complex formation with an IC <sub>50</sub> about 6 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Krumm B, et al. Identification of small molecule inhibitors of Interleukin-18. Sci Rep. 2017 Mar 28;7(1):483.

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

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