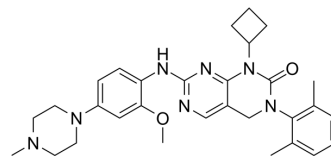


YKL-06-061

Cat. No.:	HY-120056
CAS No.:	2172617-15-9
Molecular Formula:	C ₃₀ H ₃₇ N ₇ O ₂
Molecular Weight:	527.66
Target:	Salt-inducible Kinase (SIK)
Pathway:	Immunology/Inflammation
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (31.59 mM; Need ultrasonic)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>1.8952 mL</td> <td>9.4758 mL</td> <td>18.9516 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3790 mL</td> <td>1.8952 mL</td> <td>3.7903 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1895 mL</td> <td>0.9476 mL</td> <td>1.8952 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	1.8952 mL	9.4758 mL	18.9516 mL	5 mM	0.3790 mL	1.8952 mL	3.7903 mL	10 mM	0.1895 mL	0.9476 mL	1.8952 mL
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	Please refer to the solubility information to select the appropriate solvent.																	
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (2.37 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.37 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	YKL-06-061 is a potent, selective, second-generation salt-inducible kinase (SIK) inhibitor with IC ₅₀ values of 6.56 nM/1.77 nM/20.5 nM for SIK1/2/3, respectively ^[1] .		
IC₅₀ & Target	IC ₅₀ : 6.56 nM/1.77 nM/20.5 nM (SIK1/2/3) ^[1] .		
In Vitro	<p>YKL 06-061 yields a dose-dependent increase in MITF mRNA expression^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>RT-PCR^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>UACC62 human melanoma cells, and UACC257 human melanoma cells.</td> </tr> </table>	Cell Line:	UACC62 human melanoma cells, and UACC257 human melanoma cells.
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Concentration:	0-4 μ M (UACC62); 0-16 μ M (UACC257).
Incubation Time:	3 hours.
Result:	Yielded a dose-dependent increase in MITF mRNA expression.

CUSTOMER VALIDATION

- Cell Death Dis. 2022 Feb 25;13(2):188.
- JCI Insight. 2022 May 10;e150363.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Mujahid N, et al. A UV-Independent Topical Small-Molecule Approach for Melanin Production in Human Skin. Cell Rep. 2017 Jun 13;19(11):2177-2184.

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

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