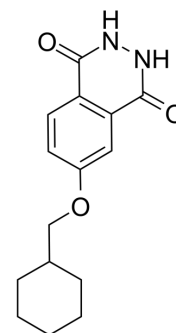


PARP10/15-IN-3

Cat. No.:	HY-146502
CAS No.:	2892064-88-7
Molecular Formula:	C ₁₅ H ₁₈ N ₂ O ₃
Molecular Weight:	274.32
Target:	PARP; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (60.77 mM); ultrasonic and warming and heat to 60°C																									
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.6454 mL</td> <td>18.2269 mL</td> <td>36.4538 mL</td> </tr> <tr> <td>5 mM</td> <td>0.7291 mL</td> <td>3.6454 mL</td> <td>7.2908 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3645 mL</td> <td>1.8227 mL</td> <td>3.6454 mL</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.6454 mL	18.2269 mL	36.4538 mL	5 mM	0.7291 mL	3.6454 mL	7.2908 mL	10 mM	0.3645 mL	1.8227 mL	3.6454 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 >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (6.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (6.09 mM); Clear solution 																									

BIOLOGICAL ACTIVITY

Description	PARP10/15-IN-3 (Compound 8a) is a potent PARP10 and PARP15 dual inhibitor with IC ₅₀ values of 0.14 μM and 0.40 μM against PARP10 and PARP15, respectively. PARP10/15-IN-3 is able to enter cells and rescue cells from apoptosis ^[1] .	
IC₅₀ & Target	PARP10 0.14 μM (IC ₅₀)	PARP15 0.40 μM (IC ₅₀)

REFERENCES

[1]. Nizi MG, et al. Potent 2,3-dihydrophthalazine-1,4-dione derivatives as dual inhibitors for mono-ADP-ribosyltransferases PARP10 and PARP15. Eur J Med Chem. 2022 Jul

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

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