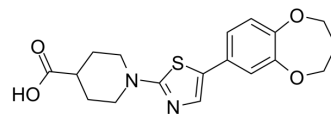


## ML372

Cat. No.:	HY-124713		
CAS No.:	1331745-61-9		
Molecular Formula:	C <sub>18</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> S		
Molecular Weight:	360.43		
Target:	DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 33.33 mg/mL (92.47 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7745 mL	13.8723 mL	27.7446 mL
	5 mM	0.5549 mL	2.7745 mL	5.5489 mL
	10 mM	0.2774 mL	1.3872 mL	2.7745 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

ML372 inhibits survival motor neuron (SMN) protein ubiquitination, increases SMN protein stability without affecting mRNA expression. ML372 improves spinal muscular atrophy (SMA) in mice. ML372 is brain penetrant and has a reasonable exposure and half-life in vivo<sup>[1]</sup>.

### REFERENCES

- [1]. Mahlet B Abera, et al. ML372 blocks SMN ubiquitination and improves spinal muscular atrophy pathology in mice. JCI Insight. 2016 Nov 17;1(19):e88427.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA